

Proposal #2001- <u>L-208</u>	(Office Use Only)
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PSP Cover Sheet (Attach to the front of each proposal)

Proposal Title: Lower Mokelumne River Restoration Program - Phase 2
 Applicant Name: Woodbridge Irrigation District
 Contact Name: Anders Christensen, Manager
 Mailing Address: 18777 North Lower Sacramento Road, Woodbridge, CA 95258
 Telephone: 209/369-6808
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 Email: wid2000@softcom.net

Amount of funding requested: \$ 680,000

Some entities charge different costs dependent on the source of the funds. If it is different for state or federal funds list below.

State cost _____

Federal cost _____

Cost share partners?X Yes No

Identify partners and amount contributed by each Woodbridge Irrigation District and City of Lodi in lieu
financing - donation of all administrative, contract management, and associated staff time.

Include the Topic for which you are applying (check only one box).

- | | |
|--|--|
| <input type="checkbox"/> Natural Flow Regimes | <input type="checkbox"/> Beyond the Riparian Corridor |
| <input type="checkbox"/> Nonnative Invasive Species | <input type="checkbox"/> Local Watershed Stewardship |
| <input type="checkbox"/> Channel Dynamics/Sediment Transport | <input type="checkbox"/> Environmental Education |
| <input type="checkbox"/> Flood Management | <input type="checkbox"/> Special Status Species Surveys and Studies |
| <input type="checkbox"/> Shallow Water Tidal/Marsh Habitat | <input type="checkbox"/> Fishery Monitoring, Assessment and Research |
| <input type="checkbox"/> Contaminants | <input checked="" type="checkbox"/> Fish Screens |

What county or counties is the project located in? San Joaquin County

What CALFED ecozone is the project located in? See attached list and indicate number. Be as specific as possible 11.2 - East Side Delta Tributaries, Mokelumne River

Indicate the type of applicant (check only one box):

- | | |
|---|---|
| <input type="checkbox"/> State agency | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input type="checkbox"/> Non-profit |
| <input checked="" type="checkbox"/> Local government/district | <input type="checkbox"/> Tribes |
| <input type="checkbox"/> University | <input type="checkbox"/> Private party |
| <input type="checkbox"/> Other: _____ | |

Indicate the primary species which the proposal addresses (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> San Joaquin and East-side Delta tributaries fall-run chinook salmon | |
| <input type="checkbox"/> Winter-run chinook salmon | <input type="checkbox"/> Spring-run chinook salmon |
| <input type="checkbox"/> Late-fall run chinook salmon | <input type="checkbox"/> Fall-run chinook salmon |
| <input type="checkbox"/> Delta smelt | <input type="checkbox"/> Longfin smelt |
| <input type="checkbox"/> Splittail | <input checked="" type="checkbox"/> Steelhead trout |
| <input type="checkbox"/> Green sturgeon | <input type="checkbox"/> Striped bass |
| <input type="checkbox"/> White sturgeon | <input type="checkbox"/> All chinook species |
| <input type="checkbox"/> Waterfowl and Shorebirds | <input type="checkbox"/> All anadromous salmonids |
| <input type="checkbox"/> Migratory birds | <input type="checkbox"/> American shad |
| <input type="checkbox"/> Other listed T/E species: _____ | |

Indicate the type of project (check only one box):

- | | |
|---|---|
| <input type="checkbox"/> Research/Monitoring | <input type="checkbox"/> Watershed Planning |
| <input type="checkbox"/> Pilot/Demo Project | <input type="checkbox"/> Education |
| <input checked="" type="checkbox"/> Full-scale Implementation | |

Is this a next-phase of an ongoing project? Yes X No _____

Have you received funding from CALFED before? Yes X No _____

If yes, list project title and CALFED number Prop #A197 - Lower Mokelumne River Restoration Program

Have you received funding from CVPIA before? Yes _____ No X

If yes, list CVPIA program providing funding, project title and CVPIA number (if applicable):

By signing below, the applicant declares the following:

- The truthfulness of all representations in their proposal;
- The individual signing the form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or organization); and
- The person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section 2.4) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

Anders Christensen, Manager

Printed name of the applicant



Signature of the applicant

B. EXECUTIVE SUMMARY

Project Title: Lower Mokelumne River Restoration Program - Phase II

Amount Requested: \$680,000

Applicant Name(s): Woodbridge Irrigation District (WID) and City of Lodi

Primary Contact: Anders Christensen, Manager, Woodbridge Irrigation District,
18777 North Lower Sacramento Road, Woodbridge, CA 95258, Telephone: 209/369-6808
Fax: 209/369-6823, E-mail: wid2000@softcom.net

Participants and Collaborators: National Marine Fisheries Service (NMFS), U.S. Fish and Wildlife Service (USFWS), California Department of Fish and Game (DFG), East Bay Municipal Utility District (EBMUD), U.S. Bureau of Reclamation (USBR), Jones & Stokes, Hanson Engineering, S. P. Cramer & Associates.

Program Summary: The Lower Mokelumne River Restoration Program (LMRRP) is located in San Joaquin County at WID's dam in Woodbridge and along the lower Mokelumne River between Camanche Dam and the Cosumnes River. The project was developed by WID, the City of Lodi, and local stakeholders to address declining anadromous fish populations in the lower Mokelumne River. The LMRRP involves implementing four key elements: Element 1 - Improve fish passage at Woodbridge Dam, Element 2 - Improve fish screening, Element 3 - Enhance spawning gravels, and Element 4 - Enhance the riparian corridor. The overall goal of the LMRRP is to eliminate or reduce the primary nonflow stressors on anadromous fish in the lower Mokelumne River.

Element 2 of the LMRRP (Improve Fish Screening) is the focus of this proposal. Local stakeholders' primary objective for this element is to reduce or eliminate the entrainment of anadromous fish in water diversions. This objective is an important nonflow stressor identified in CALFED's Ecosystem Restoration Program Plan (ERPP) for anadromous fish in the Mokelumne River ecosystem. The anadromous fish targeted are the fall-run chinook salmon and the Central Valley steelhead trout. These fish are identified in Priority Group 1 under Goal 1 (At-Risk Species) in the ERPP Strategic Plan.

To meet the primary objective of Element 2, this proposal implements the following ERPP actions: (1) Programmatic Action 1b - Improve fish screens and the fish bypass system at Woodbridge Dam, and (2) Programmatic Action 1c - Evaluate the feasibility of installing state-of-the-art screens on small pump diversions. The applicant's approach supports these ERPP actions and is twofold: (1) Design a new fish screen meeting DFG and NMFS standards for the Woodbridge Diversion canal, and (2) perform the first step in a riparian diversion fish screen prioritization study. This approach will test the following two hypotheses: (1) The proposed new fish screen at Woodbridge will improve the survival of downstream migrating salmonids; and (2) significant losses of juvenile chinook salmon and steelhead may occur as a result of inadequately screened or unscreened riparian diversions. Designing and implementing new fish screens at WID's diversion and for identified riparian diversions will benefit anadromous fish species in the lower Mokelumne River.

C. PROJECT DESCRIPTION

1. Statement of the Problem

a. Problem

The Mokelumne River's headwaters start at an elevation of about 10,000 feet on the Sierra Nevada crest, draining approximately 661 square miles before entering the San Joaquin River northwest of Stockton, California. The streamflow pattern is typical of streams in the central Sierra with high spring flows, very low summer and fall flows, and moderate winter flows.

The lower Mokelumne River is the river segment between Camanche Reservoir and its confluence with the Cosumnes River near Thornton, California. Within this reach of the river, WID has a diversion dam at Woodbridge, California that impounds water for irrigation use in the eastern Delta agricultural area and creates Lodi Lake. Lodi Lake is a park and recreational area for citizens of the City of Lodi.

The lower Mokelumne River is located within the Eastside Delta Tributaries Ecological Management Zone of CALFED's ERPP. Fall-run chinook salmon and steelhead occur in the lower Mokelumne River below Camanche Reservoir. According to the ERPP, a number of stressors contribute to lower fish populations in the lower Mokelumne River including inappropriate water temperature, lack of or poor screening of diversions, predation, poor fish passage facilities at Woodbridge Dam, limited spawning gravel, and lack of riparian shade vegetation and cover along the river.

To address the problem of low chinook salmon and steelhead populations in the lower Mokelumne River, WID, the City of Lodi, and local stakeholders developed the LMRRP based on recommendations contained in the ERPP (CALFED), the Lower Mokelumne River Fisheries Management Plan (DFG), the Anadromous Fish Restoration Program (USFWS), and the Lower Mokelumne River Project Joint Settlement Agreement (EBMUD, DFG, USFWS, FERC). WID and the City of Lodi are in the process of implementing the four key restoration elements of this program, which are: Element 1: Improve fish passage at Woodbridge Dam; Element 2: Improve fish screening; Element 3: Enhance spawning gravels; and Element 4: Enhance the riparian corridor. The applicants received partial funding for Elements 1 and 2 to prepare an environmental impact report (EIR)/environmental impact statement (EIS) and to design fish passage facilities at the Woodbridge Dam under CALFED Proposal No. A197 in 1997. Appendix A contains a complete summary and status of the LMRRP.

Element 2, the topic of this proposal, involves the design of state-of-the-art fish screens for the Woodbridge Diversion Canal and a prioritization study for currently unscreened or inadequately screened riparian diversions on the lower Mokelumne River. For the Woodbridge Diversion, the applicant seeks funds for designing a fish screen to meet DFG and NMFS standards. The present fish screen does not meet these standards. A team of experts from DFG, NMFS, USFWS, EBMUD, USBR, and private consultants has been formed to assist in design of the Woodbridge fish screen. For the riparian diversions, funding is being requested at this time to conduct a feasibility level study to assess the willingness of landowners to participate in the program and to evaluate the potential

effectiveness of screens on enhancing anadromous fish populations. The design and installation of fish screens on riparian diversions, if necessary, will take place perhaps in year 2003 or 2004.

b. Conceptual Model

Figure 1 provides a graphic representation of the conceptual model for this proposal. This model is based on extensive documentation in this watershed and elsewhere. Citations are provided on the figure and in Section I of this proposal. This model identifies four factors related to fish screens that have the potential to result in mortality and injury of juvenile anadromous fish or to result in delays in migration. These four factors include the following: (1) impingement of juvenile salmonids on screens not meeting current NMFS and DFG fish screen standards, (2) increases in predation at the base of Woodbridge Dam resulting from disorientation of juvenile salmonids passing through the existing fish screen bypass pipeline, (3) delays in migration or deviation from principal migration paths resulting from difficulty in finding passage facilities, and (4) entrainment resulting from unscreened or poorly-screened riparian diversions. These factors regarding fish screens and the ways they pertain to the Lower Mokelumne River are described below.

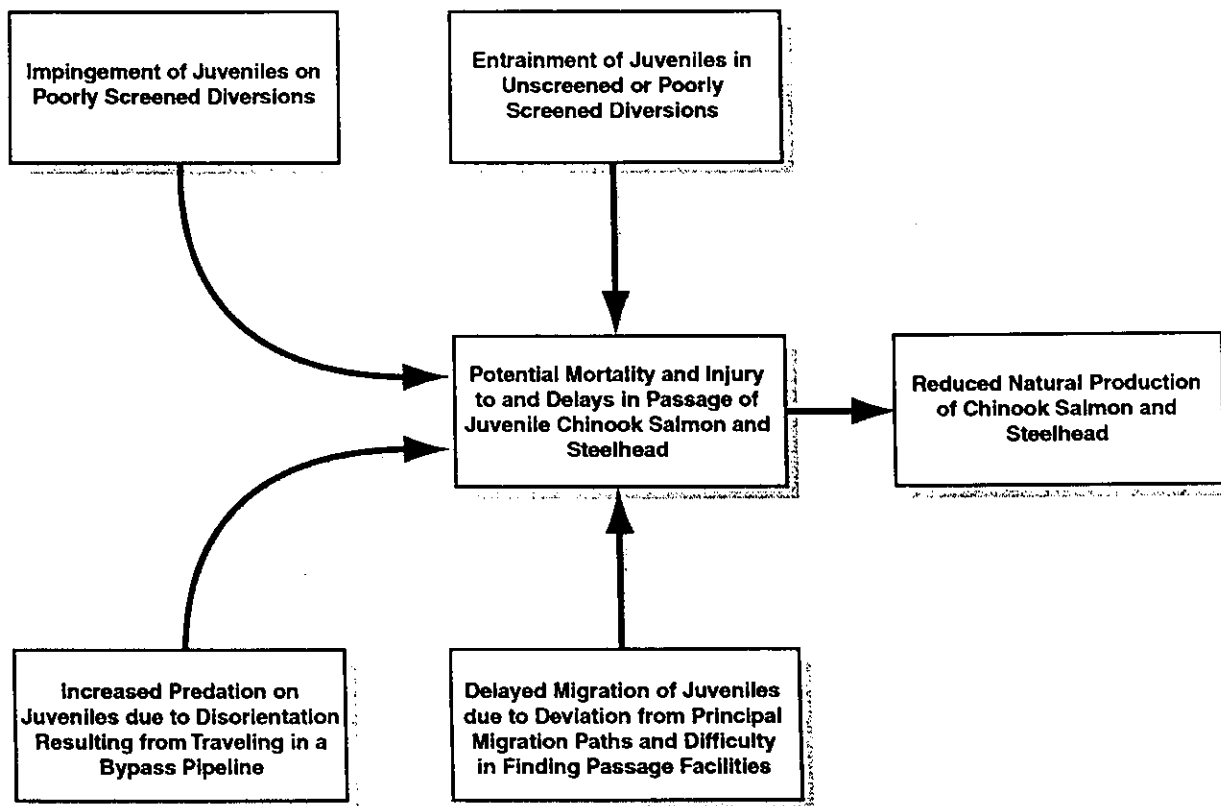
Impingement. Downstream-migrating juvenile chinook salmon and steelhead may be impinged against fish screens not designed or operated to meet current NMFS/DFG criteria for approach velocity, sweeping velocity, or screen-opening size. When approach velocities are too high or sweeping velocities are too low, migrating salmonids may have difficulty escaping the pull of the diversion. Such fish could be killed or injured by impingement, their exposure to predation could increase, or their migration could be delayed.

The existing fish screen at Woodbridge Canal, designed and built in 1968, does not meet current NMFS/DFG criteria (Biosystems 1992, CALFED Bay-Delta Program 1999, and California Department of Fish and Game 1991). Recent observations at the screen have revealed several potential problems with screen operations, including inefficient fish-guidance structures, improper seals at the screen joints, and deficiencies in the configuration of the bypass intake (Vogel Environmental Services 1992).

Predation Below the Dam. The current fish screen is designed so that fish travel along the face of the screen in front of Woodbridge Canal to the bypass pipeline entrance. The 12-inch pipeline carries juvenile chinook salmon and steelhead approximately 1/4 mile from the fish screen, through Lodi Lake, to the fish ladder below Woodbridge Dam.

Substantial predation on juvenile chinook salmon by striped bass has been observed immediately downstream of Woodbridge Dam in 1993, 1998, and 1999 (Smith pers. comm.). Temporary disorientation of smolts exiting the bypass pipe and fish ladder may increase their susceptibility to predation.

Difficulty in Finding Fish Passage Facilities. At present, during periods of relatively low flow, the majority of flow in the Mokelumne River above Woodbridge Dam may be diverted at Woodbridge Canal. The remaining flow passes through Woodbridge Dam via the fish ladder. Because of the relatively small amount of flow through the fish ladder under these circumstances,



Sources: BioSystems 1992
 Boyd 1994
 CALFED Bay-Delta Program 1999
 California Department of Fish and Game 1991
 Cramer 1995
 Fry and Petrovich 1970
 Vogel and Marine 1992
 Vogel and Marine 1996

Figure 1
Conceptual Model of the Effects of Inadequate Fish Screening
on Anadromous Fish in the Lower Mokelumne River

downstream-migrating juvenile anadromous fish may have difficulty finding the fish ladder entrance and their migration may be delayed (Eng pers. comm., McInnis pers. comm.).

Entrainment in Riparian Diversions. EBMUD has identified 59 seasonally active riparian diversions in the lower Mokelumne River between Camanche Dam and its confluence with the Cosumnes River near Thornton. These diversions range in capacity from 0.4 to 10.0 cubic feet per second. These diversions total approximately 178 cubic feet per second in total. The effects of these diversions on juvenile chinook salmon and steelhead are unknown at this time.

Figure 2 presents the conceptual model being used to guide the assessment of entrainment effects at riparian diversions. This figure shows the factors thought to be important in determining whether an individual diversion results in substantial entrainment of juvenile chinook salmon and steelhead. Each of these factors is discussed below.

Diversion Size and Rate. The magnitude of a diversion and the proportion of river flow diverted are directly related to the number of downstream migrating fish potentially encountering the diversion, and, therefore, to the potential magnitude of fish losses through entrainment or other sources. Diversion size and rate will serve as primary criteria for assigning diversions to categories.

Timing of Diversions. The timing of diversions is an important criterion because different sizes and life stages of juvenile salmon and steelhead emigrate at different times of the year and differ in their vulnerability to diversions due to differences in body size, swimming ability, and behavior.

Location. A higher potential for screening benefits exists for those diversions downstream of the major spawning and rearing areas in the Mokelumne River.

Placement. Differences in the placement of a diversion relative to hydraulic conditions (for example, water velocities) or the location of the main channel (for example, on versus off channel) may affect fish entrainment, predation, and bypass efficiency.

Screen Design and Performance. For those diversions with existing screens, current DFG and NMFS fish screening criteria will be used to evaluate screen performance relative to accepted standards for protection of juvenile salmonids. Additional field evaluations may be needed to further evaluate the performance of these screens and determine the need for improvements.

c. Hypotheses Being Tested

There are two key hypotheses concerning fish screening on the lower Mokelumne River. The first pertains to the Woodbridge diversion and the other to the riparian diversions. The hypotheses address Ecosystem Restoration Goal 1 (At-Risk Species), Goal 2 (Ecosystem Processes), and scientific uncertainty regarding the diversion effects of pumps.

1. The proposed new fish screen at Woodbridge Dam will improve the survival of downstream migrating salmonids. This hypothesis falls on the bottom rung of the Healey Ladder. The fish screen at Woodbridge has been studied for years, resulting in a great deal of background information about it. Although the action for which funding is being requested at this time involves only design

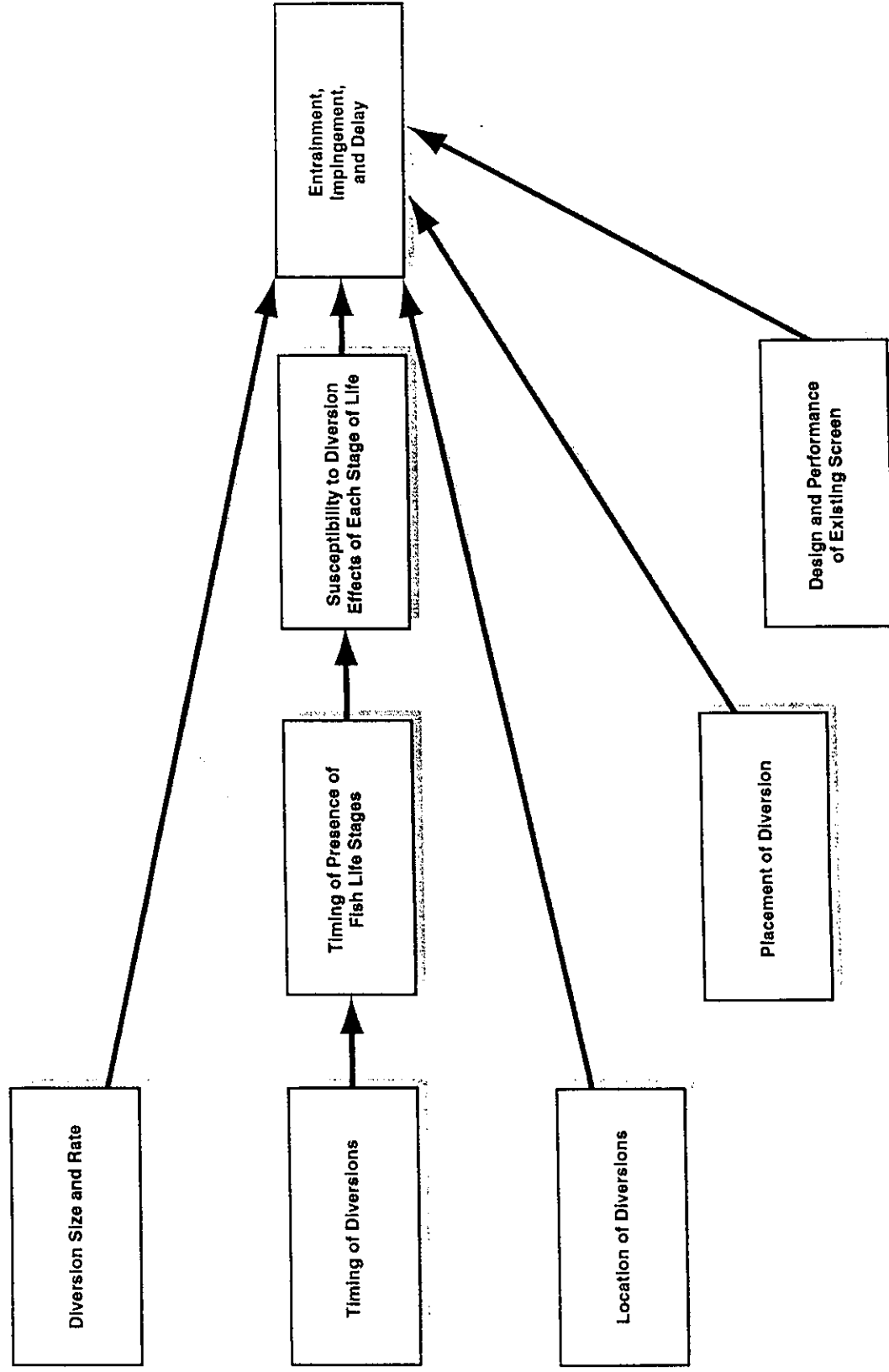


Figure 2
Conceptual Model of Factors Influencing
Effects of Riparian Diversions on Fish

of a new fish screen, the hypothesis applies to the eventual construction of a new fish screen. Based on the consensus of all of the parties guiding the study (including NMFS, USFWS, and DFG), the new fish screen would be relocated just upstream of Woodbridge Dam. This new V-shaped screen is expected to improve fish passage in several ways, including reducing impingement and entrainment by providing a screen that meets NMFS/DFG standards for approach velocity, sweeping velocity, and opening size; reducing migration delays by removing the flow split at Woodbridge Canal; and reducing losses to predation below the dam by eliminating the need for a bypass pipeline.

To evaluate this hypothesis, the abundance and population composition of downstream migrating fall-run chinook and Steelhead will be measured on a daily basis at Woodbridge Dam. Screw traps have counted downstream-migrating chinook salmon and steelhead since 1990, providing a good baseline against which changes resulting from the proposed project can be measured. Estimates of migration rates before and after implementation will be compared.

2. Significant losses of juvenile chinook salmon and steelhead may occur as a result of inadequately screened or unscreened diversions on the lower Mokelumne River. This hypothesis falls at the top of the Healey Ladder. Very little is known regarding losses of juvenile chinook salmon and steelhead at riparian diversions on the lower Mokelumne River. It is hypothesized that the following factors may be influential: diversion size and rate, timing of diversions relative to timing of fish life stage presence, location of the diversion relative to fish spawning and rearing areas, placement of the diversion (on versus off channel), and condition and design of any existing fish screen on the diversion. This proposal requests funding for the first step in determining the factors that may influence the loss of fish at these diversions, characterizing each of the diversions with respect to each of these factors.

d. Adaptive Management

Monitoring anadromous fish populations in the lower Mokelumne River is an ongoing activity being completely funded and conducted by EBMUD. For the last 10 years, extensive monitoring has documented existing fish populations and migration patterns in the river. EBMUD will continue to monitor fish movement at Woodbridge Dam. The fish screen at Woodbridge Dam would not be subject to adaptive management.

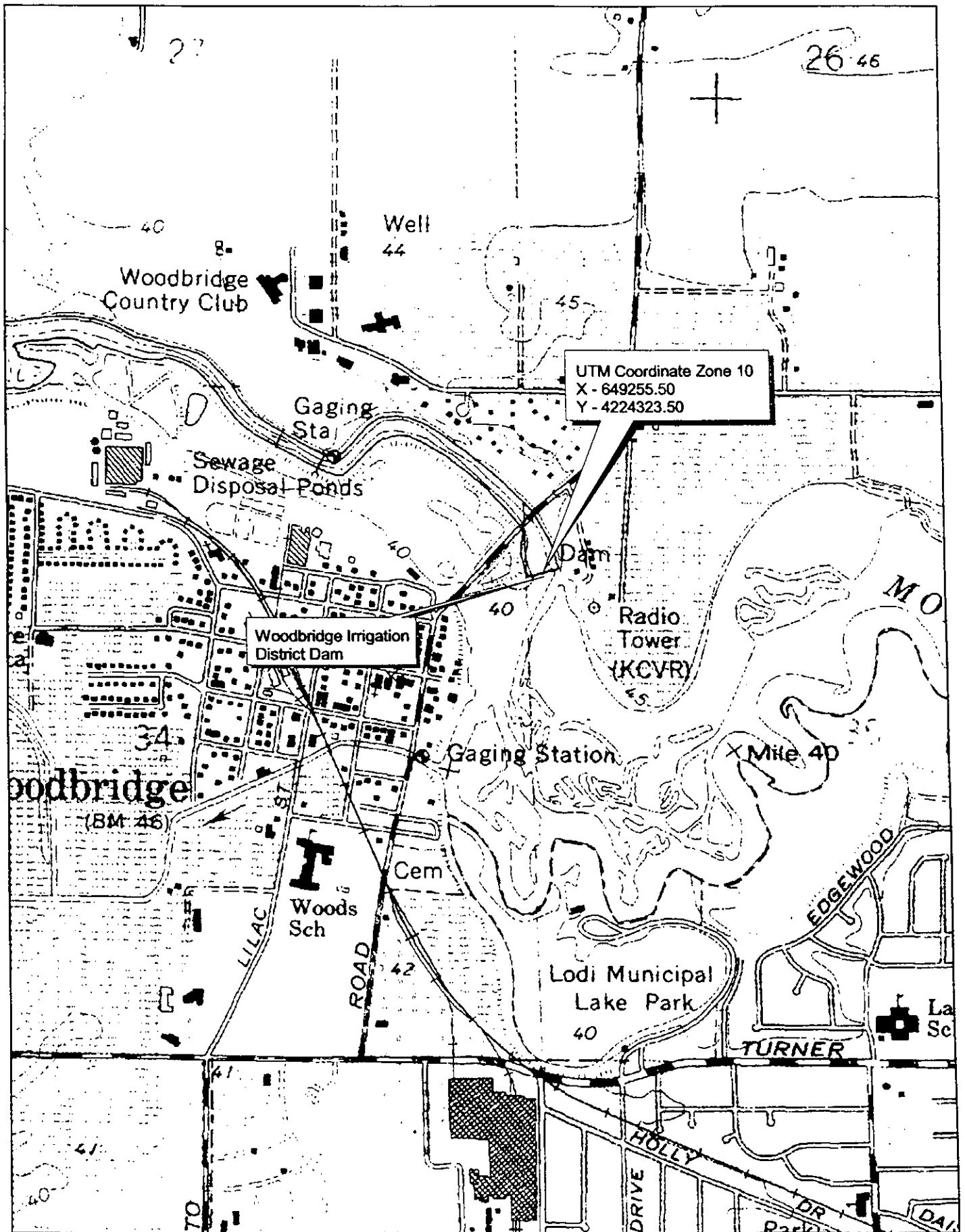
2. Proposed Scope of Work

a. Project Location

The LMRRP is located in San Joaquin County in the Mokelumne River Ecological unit of the Eastside Delta Tributaries Ecological Zone, as defined in the ERPP. Figure 3 shows the location of the proposed project on a U.S. Geological Survey (USGS) quad.

b. Project Approach

The applicant's approach regarding design of the Woodbridge Diversion fish screen and study of riparian diversions is described below.



Scale = 1:24,000

Figure 3
Woodbridge Diversion Fish
Screen Design Project Location

Woodbridge Diversion Fish Screen Design. The first element of this work involves the design of a new state-of-the-art fish screen at the Woodbridge diversion. This diversion will be moved from its existing location in front of Woodbridge Canal to a point just upstream of the new dam. Water diverted will be conveyed to the Woodbridge Canal via two 9-foot diameter pipelines. Moving the diversion near the dam will provide tremendous benefits to downstream-migrating juvenile salmonids by eliminating the need for transporting fish through a bypass pipe, improving the flow of water through Lodi Lake to the fish ladders, and improving the effectiveness of the fish screens. The diversion will be fitted with a screen that meets current DFG and NMFS standards.

The design of the fish screen and appurtenant facilities will be undertaken using the same team of experts from NMFS, DFG, USFWS, EBMUD, and USBR that are currently designing the fish passage facilities. Because no construction is being proposed, no information on sampling, analytical, planning, or construction procedures can be provided.

Riparian Fish Screen Prioritization Study. The other element of work for which we are asking for funding is the first step in determining the need for the placement of fish screens on riparian diversions on the lower Mokelumne River. Figure 4 illustrates the four steps in this study leading to conclusions regarding screening priorities. Although funding is being requested for only the first step, all four steps are described here.

In Step 1, information related to diversion size and rate, timing of diversions, diversion location, diversion placement, and existing screen design and performance (if applicable) will be collected for each of the 59 riparian diversions identified on the lower Mokelumne River. The owners of each diversion will also be contacted to determine their willingness to participate in a more detailed study of their diversion.

In Step 2, the information gathered in Step 1 will be used to assign each diversion to a category from which representative diversions will be selected for baseline entrainment studies. The results of the entrainment studies will be used to confirm and/or establish prioritization criteria and to provide a monitoring baseline for future screening projects.

In Step 3, entrainment studies will be conducted for several diversions representing each of the categories. These studies will focus on diversion types for which potential benefits of screening are expected to be greatest. In general, fish sampling will be conducted for 1 to 2 years (depending on flow and diversion conditions) at each of the selected diversions during the typical diversion period and when peak numbers of juvenile salmon are expected to occur. Sampling will target both fry and smolt-sized chinook salmon juveniles during two major migration periods (fry: January-March; smolt-sized fish: April-June). The timing, duration, and methods of sampling will likely vary among diversion sites, but the objective will be to develop estimates of the relative magnitude of fish entrainment losses to further assess screening priorities.

In Step 4, the results of the entrainment study will be analyzed and recommendations regarding screening priorities will be provided.

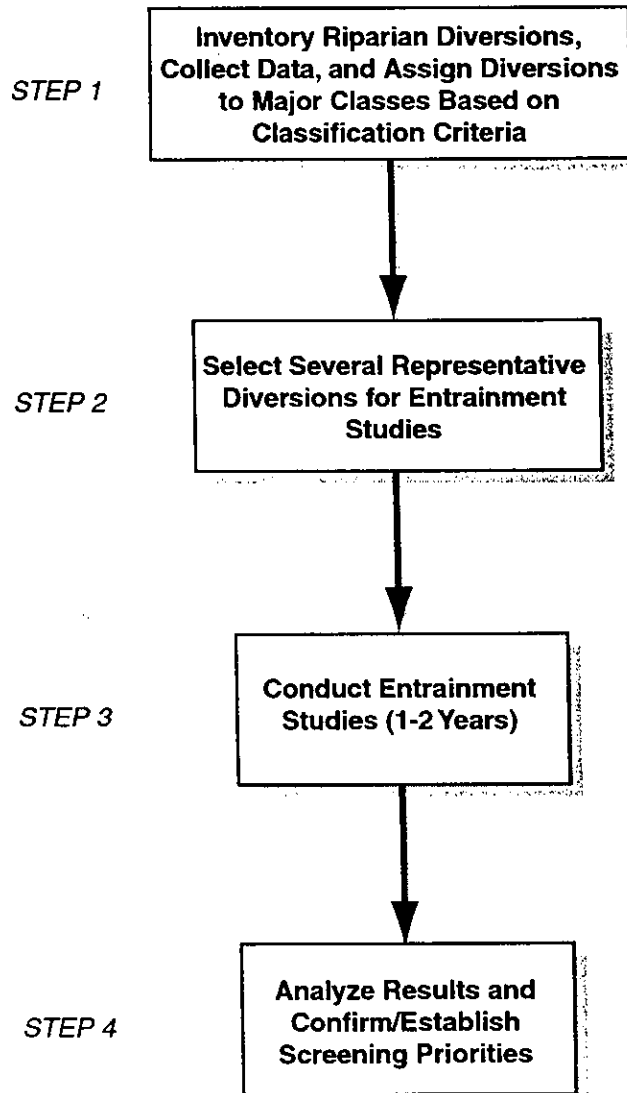


Figure 4
Proposed Steps in Conducting Riparian
Fish-Screen Prioritization Study

c. Monitoring and Assessment Plans

Monitoring anadromous fish in the lower Mokelumne River is an ongoing effort that is being completely funded by EBMUD. As part of its monitoring program, EBMUD has recently completed a "before" mark-and-capture study that included the residence times and movement times of anadromous fish. Following installation of the fish screen on the Woodbridge Diversion, the applicant proposes to conduct another mark-and-capture study to evaluate the effectiveness of the new screen. This "after" mark-and-capture study will also provide important information regarding implementation of fish screens on the riparian diversions.

d. Data Handling and Storage

Presently EBMUD is developing a data storage and management system, which is close to being operational the system is patterned after and is a component of the Interagency Ecological Program (IEP) relational database. Pertinent data collected by EBMUD personnel regarding the lower Mokelumne River will be stored on this data management system and be made available to the public. A prototype of the program is available on the World Wide Web at <http://www.iep.ca.gov/dbms/>.

e. Expected Products/Outcomes

The following products will be prepared and made available to interested parties.

- Design drawings and specifications for fish screen facilities at the WID diversion. Submittals for review will be at 25, 50, 90, and 100% stages of design.
- Report documenting the findings and recommendations of Step 1 of the riparian diversion fish screen prioritization study. WID will prepare draft and final reports.

f. Work Schedule

Design of the fish screen for WID's diversion will begin immediately following award of a contract for the work. This work will be done simultaneously with design of the new Woodbridge Dam and fish passage facilities. Fall 2001 is the anticipated time for completing all design work.

Preparing the riparian diversion fish screen prioritization study is a separate activity from the design work and will start in early winter 2000. Completion of Step 1 of the study is anticipated for summer 2001.

An implementation schedule for all elements of the LMRRP is shown in Table 1. The information contained in Table 1 shows how the fish screen design work and the riparian diversion fish screen prioritization study (Element 2) are integral components in the implementation of the LMRRP, which will occur over an 8-to 10-year period.

Table 1. Phasing of LMRRP Planning and Implementation

Element	Funding Status	Schedule	Deliverables
1. Improve Fish Passage at Woodbridge Dam			
Environmental compliance and permitting	Funded	EIR/EIS complete Spring 2000; permitting complete winter 2000-20001	Draft and final EIR/EIS and permits
Design of facilities	Funded	Completion due spring 2001	Final design drawings of new dam and fish passage facilities
Construction	None	Depends on funding	As-built construction documents and Certificate of Completion and Compliance
2. Improve Fish Screening			
Environmental compliance and permitting for WID screen	Funded	EIR/EIS complete Spring 2000; permitting complete winter 2000-2001	Draft and final EIR/EIS and permits
Design of WID fish screen	Proposed for 2001 funding	Proposed completion in summer 2001 (if funded in fall 2000)	Final design drawings of new dam and fish passage facilities
Construction of WID fish screen	None	Depends on funding	As-built construction documents and Certificate of Completion and Compliance
Riparian diversion fish screen prioritization study	1 st step proposed for 2001 funding	Proposed completion summer 2001	Screening prioritization recommendations and baseline data for project implementation
Riparian diversion fish screen design	Unfunded	Pending completion of USACE Feasibility Study	N/A
Riparian diversion fish screen implementation	Unfunded	Pending completion of USACE Feasibility Study	N/A
3. Enhance Spawning Gravels			
Environmental documentation, permitting, design, and implementation	Funded by EBMUD, DFG, and USFWS	Complete in year 2000	N/A
4. Enhance Riparian Corridor			
Environmental documentation, permitting, design, and implementation	None	Pending completion of USACE Feasibility Study	N/A

g. Feasibility

Much of the groundwork for designing the fish screen facilities has been laid, due in part to the work required in preparing the EIR/EIS for Elements 1 and 2 of the LMRRP. In preparing the EIR/EIS, some preliminary design work on the dam, fish passage, and fish screen facilities was completed so that alternatives could be properly evaluated. For this reason, WID believes the work schedule provided above is realistic and that the work can be accomplished within the given time period.

In addition to California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) compliance for the overall LMRRP (which is nearing completion), the following compliance requirements are anticipated for installing the fish passage and fish screen facilities. This compliance work has been completely funded through the previous CALFED grant and will cover the Woodbridge fish screen and fish passage facilities:

- an individual Clean Water Act Section 404 permit (preapplication coordination with USACE has already begun),
- federal and state Endangered Species Act consultation (to begin soon),
- DFG Streambed Alteration Agreement (following completion of EIR/EIS),
- National Historic Preservation Act Section 106 compliance (begun),
- Clean Water Act Section 401 compliance (following completion of EIR/EIS),
- Waste discharge requirements/National Pollutant Discharge Elimination System permits (following completion of EIR/EIS),
- State Lands Commission Land Use Lease (pursuing exemption), and
- Division of Dam Safety Certificate of approval to repair or alter a dam or reservoir (following completion of final design).

D. APPLICABILITY TO CALFED ERP GOALS AND IMPLEMENTATION PLAN AND CVPIA PRIORITIES

1. ERP Goals and CVPIA Priorities

The overall goal of the LMRRP is to eliminate or reduce the primary nonflow stressors on anadromous fish in the Lower Mokelumne River as identified in the ERP Strategic Plan. The target anadromous fish species include the fall-run chinook salmon and Central Valley steelhead. These fish are identified in Priority Group 1 under Goal 1 (At-Risk Species) in the Strategic Plan. This proposal focuses directly on the following ERPP target and actions by proposing to install a new state-of-the-art fish screen at Woodbridge Dam and by undertaking the first step in determining the priorities for installing state-of-the-art fish screens on riparian diversions.

Water Diversion Target 1. Install fish screens representing the best available technology and operational constraints, as necessary, to minimize losses in diversions that limit the recovery of fish populations.

Programmatic Action 1B. Improve fish screens and the fish bypass system at Woodbridge Dam on the lower Mokelumne River.

Programmatic Action 1C. Evaluate the feasibility of installing state-of-the-art screens on small pump diversions.

2. Relationship to Other Ecosystem Restoration Projects

Fish screening at the Woodbridge Diversion Canal and at other riparian diversions along the lower Mokelumne River are important elements in the LMRRP sponsored by WID and the City of Lodi. The LMRRP is specifically addressing the ERPP stressors on fish passage, fish screening, and restoration of the river. The sponsors of the LMRRP are also participating in the Mokelumne-Cosumnes Watershed Alliance, which is a CALFED-sponsored effort to coordinate the efforts of the numerous restoration and flood control programs and projects in the Mokelumne and Cosumnes areas. These projects include Cosumnes River Task Force, Lower Cosumnes River Feasibility Study, Cosumnes Consortium Research & Monitoring Program, Cosumnes River Preserve, Lower Mokelumne River Partnership, Mokelumne River Feasibility Study, Lower Mokelumne River Stewardship Program, Flood Protection to Point Pleasant Area, CALFED North Delta Regional Program, South Sacramento Streams Group Project, and San Joaquin County Multi-Species Habitat Conservation & Open Space Plan.

3. Requests for Next-Phase Funding

Under Proposal No. A197, CALFED has partially funded environmental compliance and permitting for the fish passage and fish screening elements (Elements 1 and 2) of the LMRRP. A draft EIR/EIS was circulated in fall 1999, and the final EIR/EIS is due in spring 2000. CALFED also provided the funds for the design of the fish passage facilities as part of Proposal No. A197. A summary of existing project work is provided in Appendix A.

The design of the fish passage facilities has recently begun following selection of the preferred alternative. **Funding for design of a new fish screen for the WID diversion is being requested in this proposal.** WID and other program participants believed it prudent, cost effective, and time efficient to design the fish screen facilities concurrently with the new fish passage facilities because the facilities are structurally and functionally connected. **Also in this proposal, WID is requesting funds for the first step in conducting a riparian diversion fish screen prioritization study** that will assess the feasibility and priority of placing fish screens on existing riparian diversions along the lower Mokelumne River.

4. Previously Funded CALFED or CVPIA Projects

Neither WID nor the City of Lodi has been a recipient of a previous CALFED grant other than for the first phase of the LMRRP, as described above.

5. Systemwide Ecosystem Benefits.

Improvements to fish passage on the lower Mokelumne River will also provide ecosystem-wide benefits. The Lower Mokelumne River Partnership (Partnership) is a joint effort by EBMUD, DFG, and USFWS created to implement the settlement agreement included in the Federal Energy Regulatory Commission license amendment for EBMUD's Lower Mokelumne River Project. The Partnership is considering alternative methods of managing the lower Mokelumne River to restore vital ecosystem functions and structures to realize the CALFED ERPP vision for the river. The remotely operable gates on the proposed new Woodbridge Dam will allow WID to lower the dam gates more fully and more frequently than is possible with the existing flashboard dam (as long as river flows are sufficient to allow gravity diversions to occur with the gates lowered). This flexibility in operations will allow EBMUD to mimic natural flow regimes because such variations in flows cannot be accommodated with the existing dam. It also will allow sediment and woody debris flows to pass Woodbridge Dam, something not possible with the existing dam. This new flexibility would allow natural ecosystem functions to be restored to the river in support of the habitat restoration activities being planned for the river downstream of the dam.

E. APPLICANT QUALIFICATIONS

The project team assembled to implement this proposal is the team currently undertaking the design and environmental compliance work previously funded by CALFED under Proposal No. A197. This team consists of the WID, City of Lodi, and the subcontractors Jones & Stokes, Hanson Engineering, and S.P. Cramer and Associates. WID and the City of Lodi selected this team of subcontractors for its unsurpassed experience and knowledge regarding the natural resources of the lower Mokelumne River and its ability to most successfully implement the LMRRP.

Woodbridge Irrigation District (WID). WID was formed June 16, 1924 as a California Irrigation District. WID was the recipient of CALFED grant No. A197 and has been managing that grant. It also has an existing contract agreement (1965) with DFG regarding the fish ladders at Woodbridge Dam. WID has an additional agreement (1967) with DFG and USFWS regarding the existing fish screen at the Woodbridge Canal diversion.

WID has supported efforts to improve the numbers of returning salmon by working cooperatively with EBMUD to coordinate and manage flows for fishery purposes. WID is also a member of the Mokelumne River Technical Advisory Committee (members also include EBMUD, USFWS, CDFG, and the Committee to Save the Mokelumne). WID is also a member of the Mokelumne River Association, an association of local, state, and federal agencies having interests on the Mokelumne River to support a healthy, self-sustaining fishery.

City of Lodi. The City of Lodi is a General Law City incorporated in November 1906. Since its incorporation, the City of Lodi has received and administered numerous state and federal grants. Between 1972 and 1997, the City received more than \$900,000 in state grants. In 1996 alone, it received more than \$500,000 in federal grants. The City of Lodi has a vested interest in the restoration of the Lower Mokelumne River.

Jones & Stokes. Jones & Stokes provides environmental services including EIR/EIS preparation, permitting assistance, program management, restoration planning and implementation, and riparian revegetation services. Phillip Dunn has provided and will continue to provide program oversight. Assisting Mr. Dunn is Craig Stevens, a senior staff member with extensive CALFED, CVPIA, Anadromous Fish Restoration Program (AFRP), and related project experience. Jones & Stokes brings unique qualifications to this effort that will increase quality, minimize costs, and ensure that schedules will be met. The firm's qualifications include a combination of:

- prior work experience on fishery issues on the Mokelumne River and prior work experience with all agencies and subcontractors affiliated with this program;
- extensive NEPA, CEQA, and environmental permitting program management experience for large-scale water projects, including CALFED, CVPIA, AFRP, Delta Wetlands projects, and the Los Vaqueros Reservoir project; comprehensive permitting handbooks for CALFED and the AFRP; and on-call contracts with USFWS and the USACE to conduct CVPIA-related and bank protection/riparian restoration projects, respectively; and

- a proven track record of implementing restoration projects, including Sacramento River and Yolo Bypass levee mitigation planning, the Cache Creek riparian enhancement plan, the Kopta Slough (Sacramento River) restoration plan, for Guadalupe River-shaded riverine aquatic habitat mitigation project, the Sacramento River Gradient Restoration Facility fish passage design, and many other projects.

Hanson Engineering. Hanson Engineering brings extensive experience in construction and water resources engineering to this program, including:

- direct involvement with the Mokelumne River and WID as its engineer for 40 years; and
- the engineer of record for materials testing and evaluation, design, construction and/or repair, enlargement, and rehabilitation of more than 65 water storage and diversion dams that were constructed under the jurisdiction of the California Department of Water Resources, Division of Safety of Dams.

S. P. Cramer & Associates. S.P. Cramer & Associates has led studies on several fish population issues related to hydroelectric dams and water diversions on the Colombia River. J. D. McMichael, an employee of S.P. Cramer & Associates, is a noted hydraulic and civil engineer with more than 32 years of consulting experience with fisheries and hydraulic structures for the USACE. Mr. McMichael has past USACE experience designing and implementing dams, fishways, ladders, fish screens, fish bypass systems, channel improvements, and flood control systems.

F. COST

1. Budget

Table 2 shows those LMRRP tasks funded to date and those for which funding is being sought from CALFED. In 1997, CALFED funded three tasks of the LMRRP, as indicated in Table 3. In addition, in 1998 EBMUD, USFWS, and DFG funded Element 3 in its entirety. WID and the City of Lodi divided the project into two phases to ensure that funding is provided and spent appropriately after sufficient information has been developed.

We are requesting that the following items be funded immediately to allow work underway to proceed in an efficient manner and to lay the groundwork for future efforts. The amounts requested are for subcontractor services only and do not include any administrative or project management cost since these costs will be provided by WID and the City of Lodi as a portion of their share in the project's cost.

- Design of the WID fish screen \$660,000,
- Step 1 of study to prioritize riparian diversions for fish screening on the lower Mokelumne River \$20,000.

The proposed budget for implementing Element 2 of the LMRRP is provided in Table 3.

2. Cost Sharing

With respect to the implementation of Element 2 (WID fish screen design and riparian diversion fish screen prioritization study), cost sharing is being provided in four areas: grant administration and project liaison services; project design; public outreach, coordination and education; and program monitoring.

Grant Administration and Project Liaison Services. WID has been providing and will continue to provide grant administration and contract management services as an in-kind contribution; no project funds have or will be used for this purpose. The services provided include acting as a liaison between CALFED and the USBR, City of Lodi (other project sponsor), and other members of the Mokelumne River Technical Advisory Committee Work Group, including NMFS, USFWS, CDFG, City of Lodi, and the engineering and environmental consultants. WID is also maintaining a liaison with environmental groups, local agencies, and individuals regarding the development of the project. No estimate of the total administrative costs has been provided for this grant application.

Preliminary Project Design. WID expended nearly \$20,000 of its own funds in 1997 and 1998 to complete an extensive preliminary design plan. Reconnaissance-level designs and cost estimates were completed to begin describing the proposed fish bypass facilities at Woodbridge Dam and the fish screen. The City of Lodi has been providing and will continue to provide locations for numerous public meetings, as well as administrative and logistical support to the LMRRP on a regular basis. These costs are not eligible costs subject to reimbursement. However, these estimates

Table 2. LMRRP Funding Status by Element

Element	Environmental Clearance and Permitting	Design	Construction
Element 1: Improve Fish Passage at Woodbridge Dam	Previously funded by CALFED	Previously funded by CALFED	None
Element 2: Improve Fish Screening - WID Diversion	Previously funded by CALFED	Proposed for 2001 funding	None
Element 2: Improve Fish Screening - Riparian Diversions	Step 1 proposed for 2001 funding	Delayed pending USACE Feasibility Study	None
Element 3: Enhance Spawning Gravels	Funded by EBMUD, DFG, and USFWS in 1998, 1999, and 2000	Funded by EBMUD, AFRP, and DFG in 1998, 1999, and 2000	Funded by EBMUD, AFRP, and DFG in 1998, 1999, and 2000
Element 4: Enhance Riparian Corridor	Delayed pending USACE Feasibility Study	Delayed pending USACE Feasibility Study	Delayed pending USACE Feasibility Study

Table 3. Total Budget (CALFED Funds Only)

Task	Direct Labor Hours	Direct Salary and Benefits	Service Contracts	Material and Acquisition Costs	Miscellaneous and other Direct Costs	Overhead and Indirect Costs	Total Cost
Design WID Fish Screen			\$660,000				\$
Riparian Diversion Screening Prioritization Study - Step 1			\$20,000				\$
Project Management	0	\$0	\$0		\$0	\$0	\$0
Total	0	\$0	\$680,000	\$0	\$0	\$0	\$680,000

and preliminary plans are being used and will be used during this portion of the project. These costs should be considered a cost share for this portion of the project covered by this application.

In addition, WID has committed to contributing \$200,000 toward the construction of project facilities if, in the future, CALFED funds construction of these facilities.

Additional Public Outreach, Coordination, and Education. The City of Lodi is providing additional public outreach services to the public on a regular basis through the Parks and Recreation Department. The Lodi Parks and Recreation Department has disseminated information to the public on the goals of CALFED and of the LMRRP through their Discovery Center Nature Program, presentations to schools, Parks and Recreation newsletters, and the annual Salmon Festival. As a project sponsor, the City of Lodi will continue to provide for the cost of public education and awareness programs to communicate LMRRP and CALFED ERP goals for the Mokelumne and Bay-Delta ecosystem. No project funds will be used to pay for these services and no cost estimates have been provided.

EBMUD continues to fund the existing monitoring program that will be used to evaluate achievement of ERPP and LMRRP project goals. Its monitoring effort, which was briefly described earlier in this proposal, is extensive and cost on the order of \$500,000 per year. This cost, which is considered as a cost share in the implementation of the LMRRP, is being fully borne by EBMUD as part of its ongoing monitoring program in the lower Mokelumne River.

G. LOCAL INVOLVEMENT

Local Support.

The LMRRP is supported by the San Joaquin Council of Governments, EBMUD, The Nature Conservancy, San Joaquin Resource Conservation District (RCD), South Sacramento RCD, Sloughhouse RCD, Florin RCD, Sacramento Area Flood Control Agency, California Cattleman's Association, and the California Rangeland Trust. In addition to this support, Senator Patrick Johnston of the Fifth Senatorial District (Sacramento and San Joaquin Counties) and Anthony Pescetti of the Tenth Assembly District, NMFS, CDFG, and others have written letters supporting the project.

In addition, letters forwarding copies of the proposal to the San Joaquin County Board of Supervisors and the Community Development Department are located in this proposal under "Threshold Requirements".

Local Groups Contacted.

During scoping for the LMRRP EIR/EIS, considerable effort was made to notify and obtain input from local groups. The CEQA notice of Preparation was published in the Lodi News-Sentinel and copies were mailed to more than 170 individuals, organizations, and agencies. In addition, a public hearing was held in the City of Lodi and both verbal and written comments were received. Among those interested local groups that have been contacted are:

- Committee to Save the Mokelumne River;
- California Sportfishing Protection Alliance;
- Delta Protection Commission;
- California State Lands Commission;
- California Native Plant Society, Lodi Branch;
- Rivergate Mokelumne Homeowners Association; and
- Friends of Lodi Lake.

Adjacent or Affected Land Owners Contacted.

All work will be conducted on land owned by WID and the City of Lodi. Adjacent landowners will be contacted as part of the USACE Clean Water Act Section 404 permit process.

Public Outreach Plan.

In addition to the public outreach activities described above, public hearings will be conducted when the final EIR/EIS is adopted. WID has been informing its customers of progress on the project through its newsletter. Also, WID will participate in the Mokelumne-Cosumnes Watershed Alliance, which has an extensive public involvement program.

Property Access Permission.

No funding is yet being requested for construction work. Design work is being requested for the Woodbridge fish screen and information collection is being requested for the riparian diversion fish screen prioritization study. It is not anticipated that the first step in the riparian diversion fish screen prioritization study will require access to private lands. If such access is needed, contact with private land owners will be made.

Third-Party Impacts.

No third-party impacts are anticipated regarding design of the fish screens or the riparian diversion fish screen prioritization study.

H. COMPLIANCE WITH STANDARD TERMS AND CONDITIONS

All applicable state (Nondiscrimination Compliance Statement) and federal (Standard 424) forms are provided under Threshold Requirements. Construction bonding will be made the responsibility of the construction company(ies) by including this requirement in the construction contracts when they are let. Therefore, these forms have not been completed at this time.

I. LITERATURE CITED

- Biosystems. 1992. Lower Mokelumne River management plan. September. Tiburon, CA. Prepared for EDAW, Inc. San Francisco, CA.
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- CALFED Bay-Delta Program 1999. Ecosystem restoration program plan. Sacramento, CA.
- California Department of Fish and Game 1991. Lower Mokelumne River fisheries management plan. November. Sacramento, CA.
- Cramer, S.P. & Associates. 1995. Central Valley Project Improvement Act anadromous fish restoration program doubling plan B recommended actions for the Mokelumne River. August. Gresham, OR.
- Eng, Larry L., PhD. Assistant Regional Manager, Fisheries, Wildlife and Environmental Programs, California Department of Fish and Game. December 31, 1999, Rancho Cordova, California - comment letter on draft Lower Mokelumne River Restoration Program EIR/EIS, contained in final EIR/EIS.
- Fry and Petrovich 1970 as cited by Biosystems. 1992. Kin Salmon (*Oncorhynchus tshawytscha*) spawning stock of California's Central Valley, 1953-1969. California Department of Fish and Game, Anadromous Fisheries Branch Administration Report No. 70-11.
- McInnis, Rodney. Acting Regional Administrator, National Marine Fisheries Service. January 3, 2000, Long Beach, California - comment letter on draft Lower Mokelumne River Restoration Program EIR/EIS, contained in final EIR/EIS.
- Smith, James. Supervising Fisheries Biologist, East Bay Municipal Utility District.
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- Vogel and Marine. 1996. Mokelumne River chinook salmon and steelhead monitoring program 1993-1994. (Evaluation of the downstream migration of juvenile chinook salmon and steelhead in the lower Mokelumne River and the Sacramento-San Joaquin Delta (January through July 1994). June. Red Bluff, CA.

J. THRESHOLD REQUIREMENTS

This section of the applicant's proposal contains the following items.

Letters of Notification

Environmental Compliance Checklist

Land Use Checklist

State Forms

 Nondiscrimination Compliance Statement

 Contracts with Public Entities

 Additional Standard Clauses

Federal Forms

 SF 424

 SF 424A

 SF 424B

 DI-2010

DIRECTORS
WILLIAM STOKES
PRESIDENT
ED LUCCHESI
VICE PRESIDENT
ADAM VAN EXEL
JOE COTTA, JR.
BILL SHINN

WOODBIDGE IRRIGATION DISTRICT
18777 N. LOWER SACRAMENTO ROAD
WOODBIDGE, CALIFORNIA 95258
(209) 369-6808
FAX: 369-6823

ANDERS CHRISTENSEN
MANAGER
SECRETARY/TREASURER
JIM SHULTS
SUPERINTENDENT

May 12, 2000

Clerk of the Board
SJCO Board of Supervisors
222 Weber Ave., Room 701
Stockton, CA 95202

Dear Clerk,

The Woodbridge Irrigation District and the City of Lodi plan to submit the enclosed application for CALFED funding for the Spring PSP for 2001 funding. A successful application would fund the design of the new fish screen and pipeline in conjunction with the already funded fish passage facilities at Woodbridge Dam. A letter of intent was sent to the Board on April 10, 2000. This letter and grant application submittal is in conformance with CALFED requirements for the grant application submittal.

We would like to express our sincere appreciation and gratitude to the Board of Supervisors for the strong support shown the project and this application. If you should have any questions regarding this application, please contact me at the District.

Sincerely Yours,


Anders Christensen, Manager

enc: Grant Application

cc: CALFED
Richard Prima, City of Lodi

DIRECTORS
WILLIAM STOKES
PRESIDENT
ED LUCCHESI
VICE PRESIDENT
ADAM VAN EXEL
JOE COTTA, JR.
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ANDERS CHRISTENSEN
MANAGER
SECRETARY / TREASURER
JIM SHULTS
SUPERINTENDENT

May 12, 2000

SJCO Community Development Department
1810 East Hazelton Avenue
Stockton, CA 95205

Dear Sirs:

The Woodbridge Irrigation District and the City of Lodi plan to submit the enclosed application for CALFED funding for the Spring PSP for 2001 funding. A successful application would fund the design of the new fish screen and pipeline in conjunction with the already funded fish passage facilities at Woodbridge Dam. A letter of intent was sent to your Department on April 10, 2000. The SJCO Board of Supervisors has taken a strong position supporting the project and this application. This letter and grant application submittal is in conformance with requirements of the grant application submittal.

If you should have any questions regarding this application, please contact me at the District.

Sincerely Yours,


Anders Christensen, Manager

enc: Grant Application

cc: CALFED
Richard Prima, City of Lodi

Environmental Compliance Checklist

All applicants must fill out this Environmental Compliance Checklist. Applications must contain answers to the following questions to be responsive and to be considered for funding. Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.

1. Do any of the actions included in the proposal require compliance with either the California Environmental Quality Act (CEQA), the National Environmental Policy Act (NEPA), or both?

X
YES

NO

2. If you answered yes to # 1, identify the lead governmental agency for CEQA/NEPA compliance.

Woodbridge Irrigation District (CEQA), U.S. Bureau of Reclamation (NEPA)
Lead Agency

3. If you answered no to # 1, explain why CEQA/ NEPA compliance is not required f or the actions in the proposal .

4. If CEQA/NEPA compliance is required, describe how the project will comply with either or both of these laws. Describe where the project is in the compliance process and the expected date of completion.

A joint draft environmental impact report (EIR)/environmental impact statement (EIS) has been prepared for the lower Mokelumne River Restoration Program, circulated October 1999. A final EIR/EIS is expected for circulation in spring of 2000, with a finding of significance and record of decision expected in autumn 2000. Elements in this 2001 grant proposal are reviewed in these environmental documents.

5. Will the applicant require access across public or private property that the applicant does not own to accomplish the activities in the proposal?

YES

X
NO

If yes, the applicant must attach written permission f or access from the relevant property owner(s). Failure to include written permission f or access may result in disqualification of the proposal during the review process. Research and monitoring field projects for which specific field locations have not been identified will be required to provide access needs and permission for access with 30 days of notification of approval.

6. Please indicate what permits or other approvals may be required for the activities contained in your proposal. Check all boxes that apply.

LOCAL

Conditional use permit	_____
Variance	_____
Subdivision Map Act approval	_____
Grading permit	_____
General plan amendment	_____
Specific plan approval	_____
Rezone	_____
Williamson Act Contract	_____
cancellation	_____
Other _____	_____
(please specify)	
None required	_____

STATE

CESA Compliance	<u>X</u>	(CDFG)
Streambed alteration permit	<u>X</u>	(CDFG)
CWA § 401 certification	<u>X</u>	(RWQCB)
Coastal development permit	_____	(Coastal Commission/BCDC)
Reclamation Board approval	_____	
Notification	_____	(DPC, BCDC)
Other <u>Division of Dam Safety Certificate</u>	<u>X</u>	
<u>State Lands Commission Land Use Lease</u>	<u>X</u>	
(please specify)		
None required	_____	

FEDERAL

ESA Consultation	<u>X</u>	(USFWS)
Rivers & Harbors Act permit	_____	(ACOE)
CWA § 404 permit	<u>X</u>	(ACOE)
Other <u>National Historic Preservation Act Section 106</u>	<u>X</u>	
<u>Waste Discharge Requirements/NPDES Permits</u>	<u>X</u>	
(please specify)		
None required	_____	

Note: Permit and approval acquisition are funded under CALFED Proposal No. A197.

DPC = Delta Protection Commission

CWA = Clean Water Act

CESA = California Endangered Species Act

USFWS = U.S. Fish and Wildlife Service

ACOE = U.S. Army Corps of Engineers

ESA = Endangered Species Act

CDFG = California Department of Fish and Game

RWQCB = Regional Water Quality Control Board

BCDC= Bay Conservation and Development Comm.

Land Use Checklist

All applicants must fill out this Land Use Checklist for their proposal. Applications must contain answers to the following questions to be responsive and to be considered for funding. Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.

1. Do the actions in the proposal involve physical changes to the land (i. e. grading, planting vegetation, or breeching levees) or restrictions in land use (i. e. conservation easement or placement of land in a wildlife refuge)?

YES

 X
NO

2. If NO to # 1, explain what type of actions are involved in the proposal (i.e., research only, planning only).

Design of fish screen at Woodbridge diversion and planning for the placement of fish screens on riparian diversions.

3. If YES to # 1, what is the proposed land use change or restriction under the proposal?

4. If YES to # 1, is the land currently under a Williamson Act contract?

YES

 X
NO

5. If YES to # 1, answer the following:

Current land use

Current zoning

Current general plan designation

6. If YES to #1, is the land classified as Prime Farmland, Farmland of Statewide Importance or Unique Farmland on the Department of Conservation Important Farmland Maps?

YES

NO

DON'T KNOW

7. If YES to # 1, how many acres of land will be subject to physical change or land use restrictions under the proposal?

8. If YES to # 1, is the property currently being commercial l y f armed or grazed?

YES

NO

9. If YES to #8, what are

the number of employees/acre _____

the total number of employees _____

10. Will the applicant acquire any interest in land under the proposal (fee title or a conservation easement)?

YES

X
NO

11. What entity/organization will hold the interest? _____

12. If YES to # 10, answer the following:

Total number of acres to be acquired under proposal

Number of acres to be acquired in fee

Number of acres to be subject to conservation easement

13. For all proposals involving physical changes to the land or restriction in land use, describe what entity or organization will:

manage the property

provide operations and maintenance services

conduct monitoring

14. For land acquisitions (fee title or easements), will existing water rights also be acquired?

YES

NO

15. Does the applicant propose any modifications to the water right or change in the delivery of the water?

YES

X
NO

16. If YES to # 15, describe _____

NONDISCRIMINATION COMPLIANCE STATEMENT

STD. 19 (REV. 3-95)

COMPANY NAME

Woodbridge Irrigation District

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), medical condition (cancer), age (over 40), marital status, denial of family care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME

Anders Christensen


DATE EXECUTED

5-15-2000

EXECUTED IN THE COUNTY OF

Sacramento

PROSPECTIVE CONTRACTOR'S SIGNATURE



PROSPECTIVE CONTRACTOR'S TITLE

Manager

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESSNAME

Woodbridge Irrigation District

STANDARD CLAUSES - CONTRACTS WITH PUBLIC ENTITIES

Workers' Compensation Clause. Contractor affirms that it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor affirms that it will comply with such provisions before commencing the performance of the work under this contract.

Nondiscrimination Clause. During the performance of this contract, the recipient, Contractor and its subcontractors shall not deny the contract's benefits to any person on the basis of religion, color, ethnic group identification, sex, age, physical or mental disability, nor shall they discriminate unlawfully against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, mental disability, medical condition, marital status, age (over 40), or sex. Contractor shall insure that the evaluation and treatment of employees and applicants for employment are free of such discrimination. Contractor shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12900 et seq.), the regulations promulgated thereunder (California Administrative Code, Title 2, Sections 7285.0 et seq.), the provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Government Code Sections 11135 - 11139.5), and the regulations or standards adopted by the awarding State agency to implement such article. Contractor or recipient shall permit access by representatives of the Department of Fair Employment and Housing and the awarding State agency upon reasonable notice at any time during the normal business hours, but in no case less than 24 hours' notice, to such of its books, records, accounts, other sources of information and its facilities as said Department or Agency shall require to ascertain compliance with this clause. Recipient, Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement. The Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the contract.

Availability of Funds. Work to be performed under this contract is subject to availability of funds through the State's normal budget process.

Audit Clause. For contracts in excess of \$10,000, the contracting parties shall be subject to the examination and audit of the State Auditor for a period of three years after final payment under the contract. (Government Code Section 8546.7).

Payment Retention Clause. Ten percent of any progress payments that may be provided for under this contract shall be withheld per Public Contract Code Sections 10346 and 10379 pending satisfactory completion of all services under the contract.

Reimbursement Clause. If applicable, travel and per diem expenses to be reimbursed under this contract shall be at the same rates the State provides for unrepresented employees in accordance with the provisions of Title 2, Chapter 3, of the California Code of Regulations. Contractor's designated headquarters for the purpose of computing such expenses shall be: 1877 North Lower Sacramento Road, Woodbridge, CA 95258

Drug-Free Workplace Certification. By signing this contract, the Contractor or grantee hereby certifies under penalty of perjury under the laws of the State of California that the Contractor or grantee will comply with the requirements of the Drug-Free Workplace Act of 1990 (Government Code Section 8350 et seq.) and will provide a drug-free workplace by taking the following actions:

1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations.
2. Establish a Drug-Free Awareness Program to inform employees about all of the following:
 - (a) The dangers of drug abuse in the workplace,
 - (b) The person's or organization's policy of maintaining a drug-free workplace,
 - (c) Any available counseling, rehabilitation and employee assistance programs, and
 - (d) Penalties that may be imposed upon employees for drug abuse violations.
3. Every employee who works on the proposed contract or grant:
 - (a) Will receive a copy of the company's drug-free policy statement, and
 - (b) Will agree to abide by terms of the company's statement as a condition of employment on the contract or grant.

This contract or grant may be subject to suspension of payments or termination, or both, and the Contractor or grantee may be subject to debarment if the department determines that: (1) the Contractor or grantee has made a false certification, or (2) the Contractor or grantee violates the certification by failing to carry out the requirements noted above.

Americans With Disabilities Act. By signing this contract, Contractor assures the State that it complies with the Americans With Disabilities Act (ADA) of 1990, (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability, as well as all applicable regulations and guidelines issued pursuant to the ADA.

Former State Employees: a) For the two-year period from the date he or she left State employment, no former State officer or employee may enter into a contract in which he or she engaged in any of the negotiations, transactions, planning, arrangements or any part of the decision-making process relevant to the contract while employed in any capacity by any State agency. b) For the twelve-month period from the date he or she left State employment, no former State officer or employee may enter into a contract with any State agency if he or she was employed by that State agency in a policy-making position in the same general subject area as the proposed contract within the twelve-month period prior to his or her leaving State service.

USBR #1425-8-FC-20-16650
Agreement No.: Project #A197

Exhibit: _____

ADDITIONAL STANDARD CLAUSES

Recycled Materials. Contractor hereby certifies under penalty of perjury that 0 (enter value or "0") percent of the materials, goods and supplies offered or products used in the performance of this Agreement meet or exceed the minimum percentage of recycled material as defined in Sections 12161 and 12200 of the Public Contract Code.

Severability. If any provision of this Agreement is held invalid or unenforceable by any court of final jurisdiction, it is the intent of the parties that all other provisions of this Agreement be construed to remain fully valid, enforceable, and binding on the parties.

Governing Law. This Agreement is governed by and shall be interpreted in accordance with the laws of the State of California.

Y2K Language. The Contractor warrants and represents that the goods or services sold, leased, or licensed to the State of California, its agencies, or its political subdivisions, pursuant to this Agreement are "Year 2000 compliant." For purposes of this Agreement, a good or service is Year 2000 compliant if it will continue to fully function before, at, and after the Year 2000 without interruption and, if applicable, with full ability to accurately and unambiguously process, display, compare, calculate, manipulate, and otherwise utilize date information. This warranty and representation supersedes all warranty disclaimers and limitations and all limitations on liability provided by or through the Contractor.

Child Support Compliance Act. For any agreement in excess of \$100,000, the Contractor acknowledges in accordance therewith, that:

1. The Contractor recognizes the importance of child and family support obligations and shall fully comply with all applicable State and federal laws relating to child and family support enforcement, including, but not limited to, disclosure of information and compliance with earnings assignment orders, as provided in Chapter 8 (commencing with Section 5200) of Part 5 of Division 9 of the Family Code; and
2. The Contractor, to the best of its knowledge, is fully complying with the earnings assignment orders of all employees and is providing the names of all new employees to the New Hire Registry maintained by the California Employment Development Department.

APPLICATION FOR FEDERAL ASSISTANCE

OMB Approval No. 0348-0043

1. TYPE OF SUBMISSION: Application <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction		2. DATE SUBMITTED May 15, 2000	Applicant Identifier N/A
		3. DATE RECEIVED BY STATE	State Application Identifier
4. DATE RECEIVED BY FEDERAL AGENCY		Federal Identifier USBR #1425-8-FC-20-16650	

5. APPLICANT INFORMATION Legal Name: Woodbridge Irrigation District		Organizational Unit:
Address (give city, county, State, and zip code): 18777 North Lower Sacramento Road Woodbridge, CA 95258		Name and telephone number of person to be contacted on matters involving this application (give area code) Anders Christensen, General Manager - 209/369-6808
6. EMPLOYER IDENTIFICATION NUMBER(EIN): <div style="border: 1px solid black; padding: 2px; display: inline-block;"> 9 4 — 2 6 4 5 8 4 9 </div>		7. TYPE OF APPLICANT: (enter appropriate letter in box) <div style="text-align: right; border: 1px solid black; width: 20px; float: right;">G</div> <div style="clear: both;"></div> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> A. State B. County C. Municipal D. Township E. Interstate F. Intermunicipal G. Special District </div> <div style="width: 50%;"> H. Independent School Dist. I. State Controlled Institution of Higher Learning J. Private University K. Indian Tribe L. Individual M. Profit Organization N. Other (Specify) _____ </div> </div>
8. TYPE OF APPLICATION: <div style="display: flex; justify-content: space-around;"> <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision </div> If Revision, enter appropriate letter(s) in box(es) A. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration Other(specify): _____		9. NAME OF FEDERAL AGENCY: U.S. Bureau of Reclamation
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: <div style="border: 1px solid black; padding: 2px; display: inline-block;"> [] [] — [] [] [] </div> TITLE: _____		11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: Lower Mokelumne River Restoration Program - Phase II
12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.): San Joaquin County, California, City of Lodi		

13. PROPOSED PROJECT		14. CONGRESSIONAL DISTRICTS OF:	
Start Date 10/2000	Ending Date	a. Applicant 11th Congressional District	b. Project 11th Congressional District

15. ESTIMATED FUNDING:		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS? a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE _____ b. No. <input type="checkbox"/> PROGRAM IS NOT COVERED BY E. O. 12372 <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW
a. Federal	\$ 680,000.00	
b. Applicant	\$.00	
c. State	\$.00	
d. Local	\$.00	
e. Other	\$.00	
f. Program Income	\$.00	
g. TOTAL \$ 680,000.00		17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? <input type="checkbox"/> Yes If "Yes," attach an explanation. <input checked="" type="checkbox"/> No

18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.		
a. Type Name of Authorized Representative Anders Christensen	b. Title General Manager	c. Telephone Number 209/369-6808
d. Signature of Authorized Representative 		e. Date Signed 5-15-2000

BUDGET INFORMATION - Non-Construction Programs

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. N/A		\$ 680,000		\$		\$ 680,000
2.						
3.						
4.						
5. Totals		\$ 680,000		\$		\$ 680,000

SECTION B - BUDGET CATEGORIES

Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
a. Personnel	\$	\$	\$	\$	\$
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual		680,000			680,000
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)		680,000			680,000
j. Indirect Charges					
k. TOTALS (sum of 6i and 6j)	\$	680,000	\$	\$	\$ 680,000
7. Program Income	\$		\$	\$	\$

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Standard Form 424A (Rev. 7-97)
Prescribed by OMB Circular A-102

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8.	\$	N/A \$	N/A \$	N/A \$	N/A
9.					
10.					
11.					
12. TOTAL (sum of lines 8-11)	\$	\$	\$	\$	\$
SECTION D - FORECASTED CASH NEEDS					
Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
13. Federal	\$ 660,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 60,000
14. Non-Federal	-0-	-0-	-0-	-0-	-0-
15. TOTAL (sum of lines 13 and 14)	\$ 660,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 60,000
SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program	FUTURE FUNDING PERIODS (Years)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16.	\$	N/A \$	N/A \$	N/A \$	N/A
17.					
18.					
19.					
20. TOTAL (sum of lines 16-19)	\$	\$	\$	\$	\$
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges:		22. Indirect Charges:			
23. Remarks:					

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.


PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 		TITLE Manager
APPLICANT ORGANIZATION Woodbridge Irrigation District		DATE SUBMITTED May 15, 2000

U.S. Department of the Interior

**Certifications Regarding Debarment, Suspension and
Other Responsibility Matters, Drug-Free Workplace
Requirements and Lobbying**

Persons signing this form should refer to the regulations referenced below for complete instructions:

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - **The prospective primary participant further agrees by submitting this proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.** See below for language to be used; use this form for certification and sign; or use Department of the Interior Form 1954 (DI-1954). (See Appendix A of Subpart D of 43 CFR Part 12.)

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)

Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12.)

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction, grant, cooperative agreement or loan.

**PART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters -
Primary Covered Transactions**

CHECK ☒ IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
 - (a) ~~Are not presently~~ debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) ~~Have not within a three-year period~~ preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) ~~Are not presently~~ indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - (d) ~~Have not within a three-year period~~ preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

**PART B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -
Lower Tier Covered Transactions**

CHECK ☐ IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

PART C: Certification Regarding Drug-Free Workplace Requirements

CHECK ☒ IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS NOT AN INDIVIDUAL.

Alternate I. (Grantees Other Than Individuals)

A. The grantee certifies that it will or continue to provide a drug-free workplace by:

- (a) ~~Publishing a statement~~ notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a ~~controlled substance~~ is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing an ongoing drug-free awareness program to inform employees about—
 - (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's policy of maintaining a drug-free workplace;
 - (3) Any available drug counseling, rehabilitation, and employee assistance programs; and
 - (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) ~~Making it a requirement that~~ each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) ~~Notifying the employee~~ in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will —
 - (1) Abide by the terms of the statement; and
 - (2) ~~Notify the employer in writing~~ of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
- (e) ~~Notifying the agency~~ in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification number(s) of each affected grant;
- (f) ~~Taking one of the following actions~~, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted —
 - (1) ~~Taking appropriate personnel action~~ against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
 - (2) ~~Requiring such employee to participate~~ satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- (g) ~~Making a good faith effort to continue~~ to maintain a drug-free workplace through implementation of paragraphs (a), (b), (c), (d), (e) and (f).

B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, state, zip code)

Check ☐ if there are workplaces on file that are not identified here.

PART D: Certification Regarding Drug-Free Workplace Requirements

CHECK ☐ IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS AN INDIVIDUAL.

Alternate II. (Grantees Who Are Individuals)

- (a) The grantee certifies that, as a condition of the grant, he or she will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant;
- (b) If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, he or she will report the conviction, in writing, within 10 calendar days of the conviction, to the grant officer or other designee, unless the Federal agency designates a central point for the receipt of such notices. When notice is made to such a central point, it shall include the identification number(s) of each affected grant.

PART E: Certification Regarding Lobbying
Certification for Contracts, Grants, Loans, and Cooperative Agreements

CHECK ☒ IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT, SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.

CHECK ☐ IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.



SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL

Anders Christensen, Manager

TYPED NAME AND TITLE

May 15, 2000

DATE

APPENDIX A. EXISTING PROJECT STATUS

Project Description

The Lower Mokelumne River Restoration Program (LMRRP) is located in northern San Joaquin County along the lower Mokelumne River between Camanche Dam and the confluence of the Mokelumne and Cosumnes Rivers (Figures A-1 and A-2). The proposed project comprises four elements: improve fish passage at Woodbridge Dam (Element 1), improve fish screening at the WID diversion (Element 2), install/upgrade fish screens at riparian diversions (Element 3), and enhance the riparian corridor (Element 4).

Scientific Merit

The actions contained in the LMRRP are all drawn from recommendations contained in existing resource management documents including the Anadromous Fish Restoration Program (USFWS), Lower Mokelumne River Management Plan (DFG), and Ecosystem Restoration Program Plan (CALFED). They address many of the important nonflow stressors identified for the lower Mokelumne River in the ERPP, as follows.

Unscreened or poorly screened diversions along the lower Mokelumne River contribute to the poor salmon and steelhead production on the river. Juvenile salmon and steelhead losses occur at the Woodbridge Irrigation District water diversion at Woodbridge Canal due to inadequate screening... There are also numerous unscreened small irrigation diversions on the lower Mokelumne River... Woodbridge Dam also provides conditions for predators, such as birds, squawfish, and striped bass, to prey on juvenile salmonids that pass downstream over the dam or through the fish ladder. The dam also impedes upstream adult salmon and steelhead passage. Rearing habitat suffers from a lack of riparian shade vegetation and cover... There has also been a significant loss of riparian and riverine aquatic vegetation along the lower river.

The LMRRP is based on the hypothesis that addressing all of the stressors identified for the lower Mokelumne River will reduce delays in both upstream and downstream fish passage, reduce entrainment in diversions, reduce predation on juvenile salmonids, and improve rearing habitat for juvenile salmonids. Reduction or elimination of these stressors should result in an increase in natural production of chinook salmon and steelhead in the Lower Mokelumne River.

Progress To Date

Under Proposal No. A197, CALFED has funded design of the fish passage facilities (Element 1), and environmental compliance and permitting for the fish passage and fish screening elements (Elements 1 and 2) of the LMRRP. In January 1999, a Preliminary Alternatives Assessment Report was completed that assessed the feasibility and efficacy of fourteen alternatives for improving fish passage at Woodbridge Dam. The report recommended that five alternatives be carried forward for further analysis in the EIR/EIS. A draft EIR/EIS was circulated in fall 1999, and the final EIR/EIS is due to be issued in spring 2000. Because the CALFED grant for this effort provided funding for environmental documentation and permitting for only two of the four elements of the proposed project, project-specific environmental documentation was provided only for improving fish passage

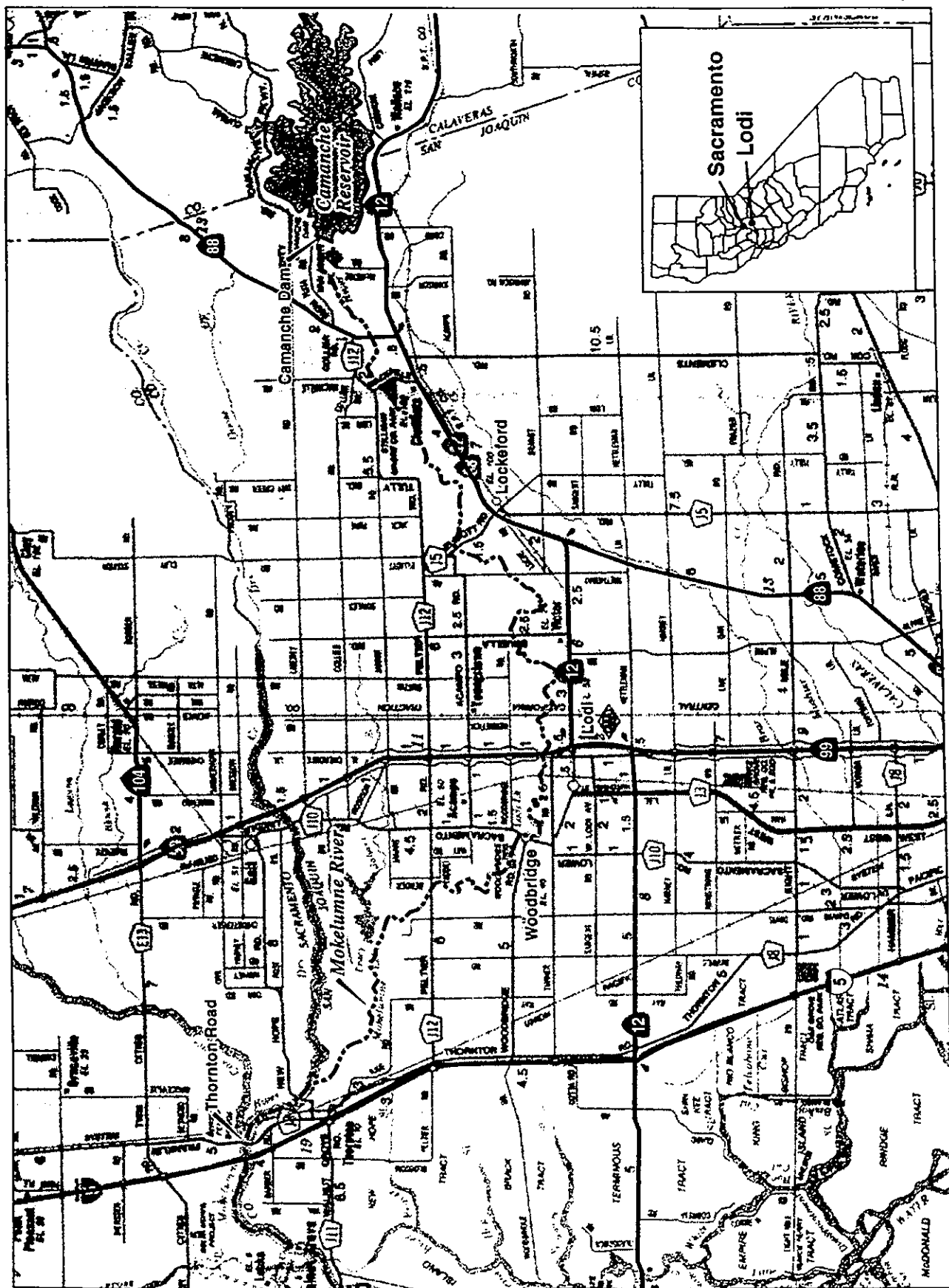


Figure A-1
Project Vicinity

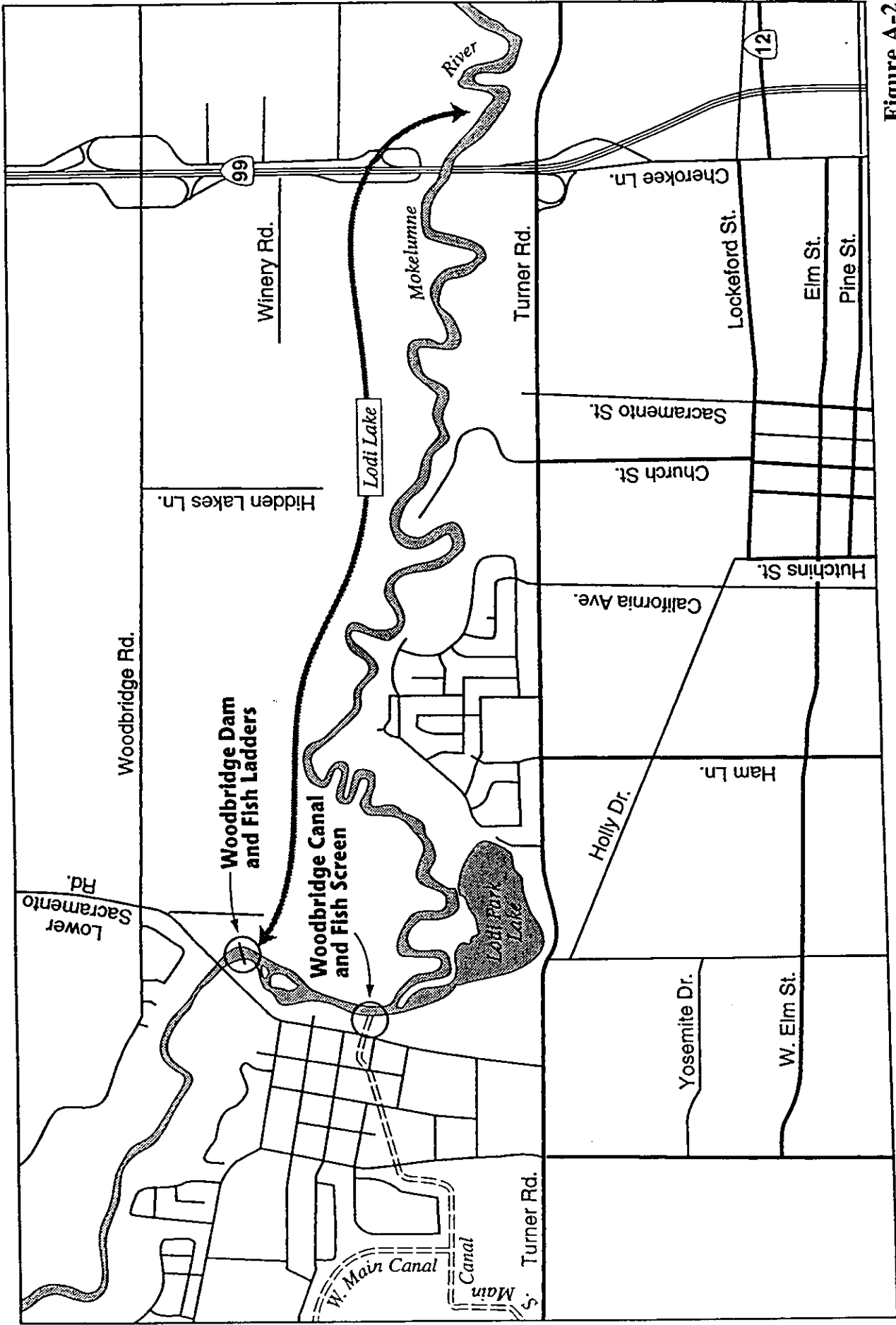


Figure A-2
Study Area for Project-Level Elements

at Woodbridge Dam and improving fish screening for the WID diversion. Environmental documentation for the two remaining elements was provided at a programmatic level. Work on biological assessments is now beginning in preparation for initiating formal Section 7 consultation under the Endangered Species Act and in preparation for applications for all other permits cited in Proposal No. A197. All permits are expected to be obtained by summer 2000.

WID and USBR have worked closely with a work group containing representatives from NMFS, USFWS, DFG, and EBMUD. In consultation with the members of the work group, WID and USBR have selected a preferred alternative that includes constructing new fish passage facilities and a new weir at the site of the existing Woodbridge Dam (including a downstream splash pool for juvenile salmonids passing over the dam and predator control measures below the dam) and moving the fish screen from its current location at the entrance to the Woodbridge Canal to just upstream of the dam. With selection of the preferred alternative, WID has begun design of the fish passage facilities, also funded under Proposal No. A197. This design work is being done in consultation with fish passage experts from NMFS, USFWS, DFG, EBMUD, and USBR.

Through March 2000, the status of expenditures under Proposal No. A197 is as follows:

Task	Contract	Expended	Remaining
1.1 Fish Passage - Environmental	\$382,000	\$275,208	\$106,792
1.2 Fish Passage - Design	\$1,153,000	\$160,053	\$992,947
2.1 Fish Screen - Environmental	\$40,000	\$21,747	\$18,253
Total	\$1,575,000	\$457,008	\$1,117,992

Existing Data Collection and Monitoring Program

At present, all monitoring of both adult and juvenile fish migrations is conducted and funded by EBMUD. Its extensive monitoring program includes the following elements:

- screwtrap monitoring downstream of Woodbridge Dam for juvenile salmonids,
- video monitoring within the fish ladder at Woodbridge Dam for adult salmonids,
- trapping of adult fish within the fish ladder at Woodbridge Dam,
- seasonal fish community surveys by electrofishing and seining from Camanche to the Cosumnes River,
- diet studies of the more common fish species in the lower Mokelumne River, and
- reservoir and river temperatures.

APPENDIX B. LETTERS OF SUPPORT

Resolution # 00-04-01
Resolution Supporting An Application for CALFED Category III Restoration Funds

Whereas; Woodbridge Irrigation District and the City of Lodi's intent to file an application for CALFED 2001 Funding under the Category III Ecosystem Restoration Grants and Programs for the Lower Mokelumne River Restoration Program.

Whereas; The application calls for funding the design of a new fish screen system at Woodbridge Irrigation's District's Dam, two large diameter pipelines to carry water to WID canal and a study to determine the where fish screens may be needed on small agricultural diversions upstream of WID Dam. The application will ask for approximately \$500,000 - \$600,000 in funding for the design of the fish-screen, pipeline, and agricultural fish screening study.

Whereas; The Lower Mokelumne River Restoration Program was funded in 1998 for \$1,575,000 to complete the design of a new dam including new fish ladders, tail water control, low level outlet gate control, fishery protection berm at Lodi Park Lake, and fishery monitoring facilities.

Be it resolved that; the Woodbridge Irrigation District, joins with the City of Lodi, in the supporting this application for funding for the Lower Mokelumne River Restoration Program.

The foregoing resolution was passed by the Board of Directors at their April 11, 2000 meeting held at Woodbridge, California.

Vote: Ayes, Stokes; Van Exel; Cotta; Shinn Nays, None Absent, Lucchesi

Signed: William Stokes
William Stokes, President

Attest: Anders Christensen
Anders Christensen, Secretary

Resolution # 00-04-02
Resolution Supporting Construction of Lower Mokelumne River Project &
\$200,000 Matching Funding

Whereas; Woodbridge Irrigation District and the City of Lodi's intent to file an application for CALFED 2001 Funding under the Category III Ecosystem Restoration Grants and Programs for the Lower Mokelumne River Restoration Program.

Whereas; the Woodbridge Irrigation District desires to show their support and determination toward the construction of the project.

Whereas; the LMRRP is an project and the proposal to upgrade Woodbridge's Dam for fish passage improvements will provide many benefits to the environment and the community.

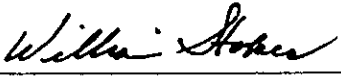
Whereas; the LMRRP is a project that is broadly supported by numerous Federal and State Agencies responsible for the fishery and environment but also broadly supported by community members as a solution to improving fish passage conditions at WID facilities and meeting CALFED Bay Delta goals and targets.


Be it resolved; that the Woodbridge Irrigation District pledges to support the Lower Mokelumne River Restoration Program project by providing an contribution of \$200,000 towards the full construction of the new dam, fish ladder, and fish passage and monitoring facilities.

Be it further resolved; that this show of support is a further indication of the District's determination to construct the project and an encouragement for CALFED, State, and Federal agency funding of the Lower Mokelumne River Restoration Program and that Woodbridge encourages other agencies including the City of Lodi and East Bay Municipal Utilities District to pass similar resolutions supporting the project.

The foregoing resolution was passed by the Board of Directors at their April 11, 2000 meeting held at Woodbridge, California.

Vote: Ayes, Stokes; Van Exel; Cotta; Shinn Nays: 0 Absent: Lucchesi

Signed: 
William Stokes, President

Attest: 
Anders Christensen, Secretary

REPLY TO:

- ☐ CAPITOL OFFICE
ROOM 5066
STATE CAPITOL
SACRAMENTO, CA 95814
(916) 445-2407
- ☐ DISTRICT OFFICES
- ☐ 31 E. CHANNEL STREET
ROOM 440
STOCKTON, CA 95202
(209) 948-7930
FAX (209) 948-7993
- ☐ 1020 N STREET
ROOM 504
SACRAMENTO, CA 95814
(916) 323-4306
FAX (916) 323-2596

SENATE
CALIFORNIA LEGISLATURE



SENATOR
PATRICK JOHNSTON

FIFTH SENATORIAL DISTRICT
SERVING SACRAMENTO AND SAN JOAQUIN COUNTIES

COMMITTEES:

APPROPRIATIONS
CHAIR

INSURANCE

NATURAL RESOURCES
& WILDLIFE

PUBLIC SAFETY

REVENUE AND
TAXATION

April 10, 2000

Anders Christensen, Manager
Woodbridge Irrigation District
18777 North Lower Sacramento Road
Woodbridge, CA 95258

Dear Mr. Christensen:

It has come to my attention that the Woodbridge Irrigation District and the City of Lodi have applied for approximately \$500,000 from CALFED. I understand the funds are necessary to complete the design of the fish screen and other potential construction needs as part of the Lower Mokelumne River Restoration Program.

I strongly support improving the fish passage that would result from the additional funds being requested for this part of the restoration project. Enhancing public recreation and ensuring that the Woodbridge Irrigation District maintains access to its water rights from the Mokelumne River for irrigation are vital benefits for residents in our community.

Because of the reasons cited above, I urge CALFED to favorably consider the funding request from the Woodbridge Irrigation District and the City of Lodi.

Sincerely,

A handwritten signature in black ink, appearing to be "Patrick Johnston", written over a horizontal line.

Patrick Johnston
Senator, 5th District

PJ:chg

RECEIVED APR 11 2000

05/12/2000 14:11 FAX 9163192110

ASM ANTHONY PESCECETTI

001

COMMITTEES
VICE CHAIRMAN
UTILITIES AND COMMERCE
MEMBER
BANKING AND FINANCE
HIGHER EDUCATION
PUBLIC EMPLOYEES RETIREMENT
AND SOCIAL SECURITY (PERRS)
SELECT COMMITTEES
CALIFORNIA WINE
DEVELOPMENT OF THE
10th UC CAMPUS

Assembly
California Legislature



ANTHONY PESCECETTI
ASSEMBLY MEMBER, TENTH DISTRICT
Anthony.Pescecetti@sen.ca.gov
<http://republish.assembly.ca.gov/members/10/>

STATE CAPITOL ☐
P.O. BOX 942849
SACRAMENTO, CA 95894-0010
(916) 319-8010
FAX (916) 319-2110
DISTRICT OFFICE ☐
2845 HOPKIN ROAD, SUITE 150
SACRAMENTO, CA 95827
(916) 382-4161
FAX (916) 382-4164
DISTRICT OFFICE ☐
316 W. PINE STREET, SUITE 12
LODI, CA 95240
(209) 333-5325
FAX (209) 333-5325

May 12, 2000

Mr. Lester Snow, Executive Director
CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, CA 95814

Dear Mr. Snow:

The purpose of this letter is to urge your support for an important project in my Assembly district. The Woodbridge Irrigation District and the City of Lodi are requesting \$500,000 for completing the design phase of a fish screen as part of the Lower Mokelumne River Restoration Program. This particular project will improve fish passage, screen unscreened diversions, construct a fish protection berm at Lodi Park Lake, and implement riparian corridor improvements on District lands and from willing private land owners along the Mokelumne River.

This project is strongly supported by a wide variety of public interest groups, state and federal agencies. I am not aware of any opposition.

Thank you for your consideration.

Sincerely,

ANTHONY PESCECETTI
Assemblyman, 10th District

cc: Anders Christensen, Woodbridge Irrigation District
Mayor Steve Mann, City of Lodi

ap:sm



BOARD OF SUPERVISORS

222 EAST WEBER AVENUE, ROOM 701
STOCKTON, CALIFORNIA 95202

TELEPHONE: 209/468-3113
Fax: 209/468-3691

DAVID L. BAKER
County Administrator

TERRENCE R. DERMOODY
County Counsel

LOIS M. SAHYOUN
Clerk of the Board

EDWARD A. SIMAS
CHAIRMAN
THIRD DISTRICT

JACK A. SIEGLOCK
VICE CHAIRMAN
FOURTH DISTRICT

STEVE GUTIERREZ
FIRST DISTRICT

DARIO L. MARENCO
SECOND DISTRICT

ROBERT J. CABRAL
FIFTH DISTRICT

May 11, 2000

CALFED Bay-Delta Program
1416 Ninth Street, Room 1148
Sacramento, California 95814

**SUBJECT: LETTER OF SUPPORT FOR THE LOWER MOKELUMNE RIVER
RESTORATION PROGRAM**


Gentlemen:

The San Joaquin County Board of Supervisors supports the Lower Mokelumne River Restoration Program, as being led and developed by the Woodbridge Irrigation District. The Board urges the CALFED to finance the \$700,000 Grant Application for Fiscal Year 2001 funding of this program.

The funding for the completion of the engineering design and prioritization study will help bring this important environmental project to a successful completion. The project has the benefit of providing important fishery-rearing habitat and local recreational facilities. The public would be greatly served by providing these two joint benefits.

Your support of this important Grant Application is appreciated.

Sincerely,



EDWARD A. SIMAS, Chairman
Board of Supervisors
Third District

EAS:JWP:to
CALFED/WOODBRIDGE.ITR

c: Anders Christensen, General Manager
Woodbridge Irrigation District

Manuel Lopez, Director of Public Works

RESOLUTION NO. 2000-70

A RESOLUTION OF THE LODI CITY COUNCIL AUTHORIZING THE
PUBLIC WORKS AND PARKS & RECREATION STAFF, IN
CONJUNCTION WITH THE WOODBRIDGE IRRIGATION
DISTRICT, TO APPLY FOR CALFED 2001 CATEGORY III GRANT
FOR THE DESIGN OF MOKELUMNE RIVER FISH SCREEN

=====

WHEREAS, the City of Lodi supports the efforts of CALFED and the Woodbridge Irrigation District to improve the ecosystem of the Lower Mokelumne River, and, in particular, fish passage improvements near Lodi; and

WHEREAS, the City of Lodi has participated in the planning and implementation of the replacement fish passage facility at Woodbridge and protection berm at Lodi Lake; and

WHEREAS, the project should include fish screens and a pipeline to properly accommodate migrating fish.

NOW, THEREFORE, BE IT RESOLVED, that the Lodi City Council hereby authorizes the Public Works and Parks & Recreation staff, in conjunction with the Woodbridge Irrigation District, to apply for CalFed 2001 Category III Grant for the design of Mokelumne River Fish Screen; and

BE IT FURTHER RESOLVED, that the City Manager is hereby authorized to execute the grant documents on behalf of the City of Lodi.

Dated: May 3, 2000

=====

I hereby certify that Resolution No. 2000-70 was passed and adopted by the Lodi City Council in a regular meeting held May 3, 2000 by the following vote:

AYES: Council Members -- Hitchcock, Land, Nakanishi, Pennino
and Mann (Mayor)

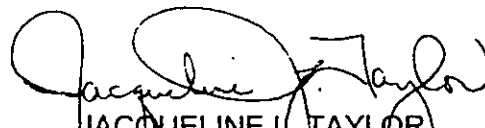
NOES: Council Members - None

ABSENT: Council Members - None

ABSTAIN: Council Members - None

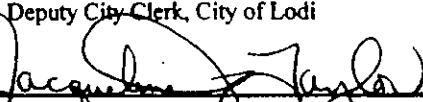
The foregoing document is certified to be a correct
copy of the original on file in the City Clerk's Office.

Jacqueline L. Taylor
Deputy City Clerk, City of Lodi


JACQUELINE L. TAYLOR
Interim City Clerk

2000-70

By:
Dated:


May 10, 2000

STATE OF CALIFORNIA - THE RESOURCES AGENCY

GRAY DAVIS, Governor

DEPARTMENT OF FISH AND GAME

REGION 2

1701 NEARLE ROAD, SUITE A

RANCHO CONGOVA, CALIFORNIA 95570

Telephone (916) 368-2900



May 11, 2000

Mr. Anders Christensen, Manager
Woodbridge Irrigation District
18777 North Lower Sacramento Road
Lodi, California 95258

Dear Mr. Christensen:

The Department of Fish and Game (Department) has reviewed the meeting summary of the Fish Passage Workgroup meeting which discussed alternatives for fish passage improvements at Woodbridge Dam and Lake Lodi. The purpose of the meeting was to address comments provided by the Department and other resource agencies on the Environmental Impact Report/Environmental Impact Statement (EIR) for the lower Mokelumne River Restoration Program and to arrive at a consensus on the preferred alternative.

The meeting was very productive and a consensus was reached on the preferred alternative. The preferred alternative included: (1) a new low-level outlet gate which would be a priority for providing attraction flows for the fish ladder, (2) a new fish ladder, (3) relocation of the diversion intake to the dam that will be designed to function in concert with the ladder, (4) a new fish screen that conforms to Department and National Marine Fisheries Service Criteria, (5) a new dam which incorporates the relocated diversion and new fish ladder and diversion, (6) predator management activities below the dam, (7) a downstream splash pool and (8) a monitoring and visitor facility.

We believe this alternative will benefit the aquatic resources of the Mokelumne River while meeting public and agricultural needs. We will continue to work with you to implement this significant fishery improvement project. By providing Woodbridge Irrigation District funds, you have clearly demonstrated your commitment to protecting and restoring the Mokelumne River fishery. We will support you in your efforts to obtain the additional funding for the next phase of the project.

If we can be of further assistance or if you have any questions, please contact John Nelson, Environmental Specialist IV, at (916) 358-2944.

Sincerely,



Banky E. Curtis
Regional Manager

cc: Mr. Buford Holt
Bureau of Reclamation
16349 Shasta Dam Boulevard
Shasta Lake, California 96019

Mr. Dennis Smith
National Marine Fisheries Service
Protected Resources Division
650 Capitol Mall, Suite 6070
Sacramento, California 95814

Mr. James Smith
East Bay Municipal Utility District
108 W. Turner Road, Suite C
Lodi, California 95240

Mr. John Nelson
Department of Fish and Game
1701 Nimbus Road
Rancho Cordova, California 95670



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE

Southwest Region
501 West Ocean Boulevard, Suite 4200
Long Beach, California 90802-4213

May 11, 2000

F/SWR03:DES

Mr. Anders Christensen
Woodbridge Irrigation District
18777 N. Lower Sacramento Road
Woodbridge, California 95358

Dear Mr. Christensen,

The purpose of this letter is to indicate the National Marine Fisheries Service (NMFS) support for CALFED funding for design of the Lower Mokelumne River Restoration Program (LMRP) fish screen. Previous funding was supplied by CALFED for design of the Woodbridge Dam and upstream fish passage facilities.

Woodbridge Irrigation District (WID) and their consultants propose moving WID's agricultural point of diversion and its associated fish screen to the right bank of the Mokelumne River immediately upstream of Woodbridge Dam. By building the fish screen and ladder at one location, all of the river's flow remains in the main river channel, and passes by the screen directly into the fish ladder. A separation wall would prevent up-migrating fish from falling back over the dam when water is cresting the dam and would help balance flows across the fish screen. Additionally, WID would benefit from greater operational flexibility in this design by combining screen bypass flows and fish ladder flows. Fish screen/fish ladder combination designs of this type are being used at three locations on Butte Creek; all of those sites performed well in their first year of operation.

NMFS believes a fish screen near the dam is the best alternative from the standpoint of fish passage protection. By diverting water closer to the dam, flow patterns are more direct and natural; no stratification sills are required, no piped juvenile bypass is required and screen sweeping flows are combined with fish ladder flows. We believe that it is imperative that design of the fish screen be incorporated into the overall fish passage/dam structural design. Because of our concerns, we think that the LMRP fish screen is an excellent candidate for CALFED funding and that this funding would contribute to recovery and survival of federally threatened Central Valley steelhead (*Oncorhynchus mykiss*) and the candidate Central Valley fall/late-fall chinook salmon (*O. tshawytscha*) species.



If you have any questions concerning these comments, please contact Mr. Dennis Smith in our Sacramento Area Office, 650 Capitol Mall, Suite 6070, Sacramento, CA 95814. Mr. Smith may be reached by telephone at (916) 498-6492 or contact Mr. Steve Thomas at (707) 575-6079.

Sincerely,

**ORIGINAL SIGNED BY
MICHAEL ACETUNO FOR**

Rodney McInnis
Acting Regional Administrator

cc: Buford Holt, USBR
Julie Brown, DFG/R2
Deborah McKee, CDFG-HQ
Cay Goude, USFWS Sacramento
Penny Ruvelas, NMFS, Long Beach, CA
Sacramento Admin file



JOHN B. LAMPE
DIRECTOR OF WATER AND NATURAL RESOURCES
(510) 287-1127
jlampe@ebmud.com

JON A. MYERS
ACTING MANAGER OF NATURAL RESOURCES
(510) 287-1121
myers@ebmud.com

May 1, 2000

Mr. Anders Christensen, Manager
Woodbridge Irrigation District
18777 North Lower Sacramento Road
Woodbridge, CA 95258

SUBJECT: Lower Mokelumne River Restoration Program

Dear Mr. Christensen:

The purpose of this letter is to let you know that East Bay Municipal Utility District continues to fully support Woodbridge Irrigation District's efforts to carry out the Lower Mokelumne River Restoration Program, including your application for 2001 CalFed Category III funding for the next phase of the program.

As we have said before, the LMRRP is an important part of the overall Mokelumne River anadromous fisheries restoration efforts that our two districts have pursued together for so many years. We sincerely appreciate your dedication to carrying out this program; we know from experience that it takes a lot of resources. Consequently, we were especially pleased to note your district's further commitment in allocating a not insignificant amount of funds for furthering the program.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Jon A. Myers', is written over the typed name.

Jon A. Myers, Acting Manager
Natural Resources Department

JAM:rm

RIVERGATE MOKELUMNE HOMEOWNERS ASSOCIATION

April 19,2000

Woodbridge Irrigation
Andy Christensen
18777 N. Lower Sacto Rd.
Woodbridge, CA 95258

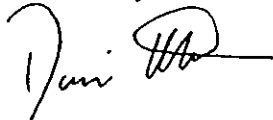
Dear Andy:

This letter is to show our support for the Lower Mokelumne River Restoration Program and your \$500,000 - \$700,000 CALFED grant application for FY 2001 funding. The funding will be used to complete the design of the fish screen to study placement of fish screens on small diversions upstream of Woodbridge Dam. We have supported the full construction of the project including your plans to rebuild Woodbridge dam and fish facilities. The benefits to fish passage, monitoring and ability to manage fishery flows will be enormous.

Lodi Lake and Lodi Lake Park provide important fishery rearing habitat but has also been Lodi's family recreational treasure. The new dam would be built for fishery enhancements by keeping Lodi Lake full during winter periods for fishery purposes thereby increasing habitat for Salmon fry, par and smolt rearing. Additionally, if the lake were to retain water throughout the year, the public would be greater served with increased recreational opportunities. Local wetlands and surrounding habitats would also be improved. The current WID dam unfortunately does not have the capability to keep lake levels up or meet our citizen's desire for improved environmental, fishery or recreation benefits.

We wholeheartedly endorse the LMRRP and it's full funding from CALFED's Restoration Grant Program. The project will meet many of the goals and targets of CALFED Ecosystem Restoration Program and represents a consensus of local environmental, recreational, homeowner groups and public agencies toward improving fish passage. The membership of our organization is representative of the many other like organizations in Lodi who broadly support this project (LMRRP) not only for fishery purposes but also for the improved recreational opportunities.

Sincerely,



Donnie Garibaldi
President, Rivergate Mokelumne Homeowner's Association

Post Office Box 791, Lodi, California 95241-0791
(209) 333-3400